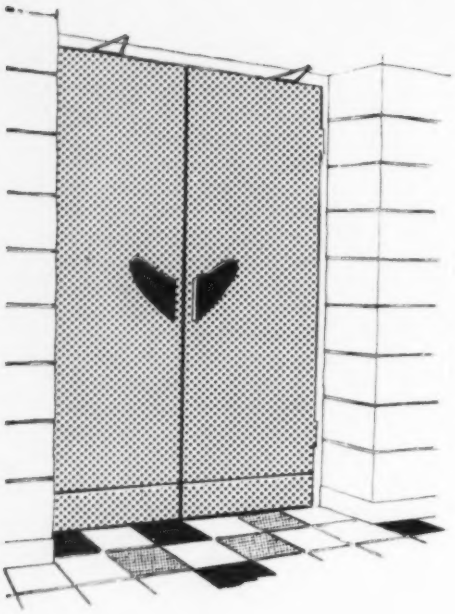
THE ARCHITECT & BUILDING NEWS

2 DECEMBER 1959 VOL. 216 NO. 17 ONE SHILLING WEEKLY

- **L.C.C. HOLLAND PARK SCHOOL**
- **CURRENT MARKET PRICES AND MEASURED RATES**

PUBLISHED IN LONDON SINCE 1854



Only the SLIM arms can be seen

The "No. 500" is a new door closer designed for use when the appearance of the door and surroundings are of first consideration. With nothing visible except the slim arms, which are styled to be as streamlined and unobtrusive as possible, it achieves complete concealment without loss of power or door control. The "No. 500" is suitable for internal single-action doors not exceeding 7′ by 3′ in size, and 112 lbs. in weight.

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- ★ Closing and latch speed fully adjustable.
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- ★ Body only 1¾″ wide, overall length 13″.
- ★ Opens to 90° or 180° according to fixing position.
- ★ No oil leakage.

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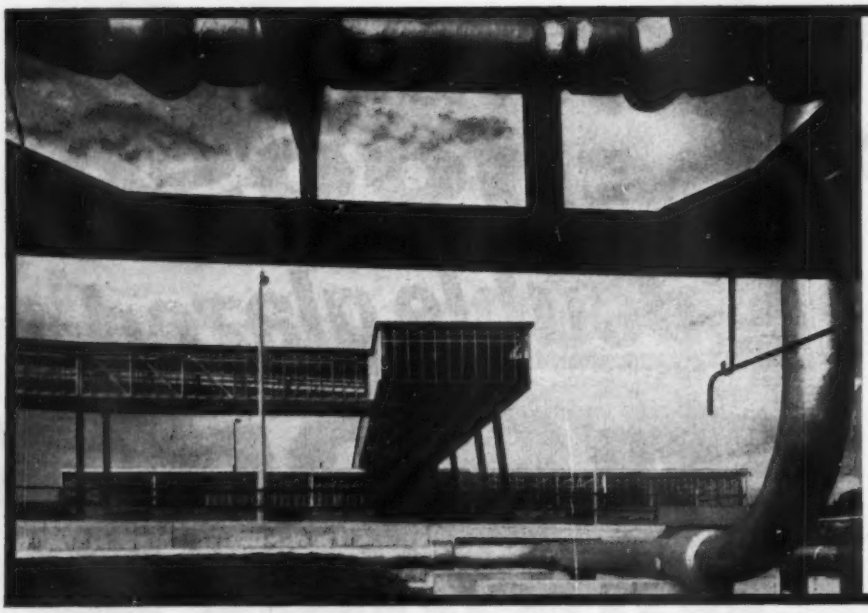

The new Heinz factory at Wigan is the largest factory to be built in Britain since the war. Shown here is the ancillary can factory, clad in Williams & Williams "Aluminex" vertical patent glazing. The continuous opening lights are gear-operated to give critical control of ventilation.

Architects:
J. Douglass Mathews and Partners, London in association with Skidmore, Owings and Merrill, New York.

The new Heinz factory is turning depressed Wigan into a boom area. By the time it is in full production it will be employing some 3,000 local people and taking up a good deal of the local agricultural produce, which is both abundant and high in quality.

The 127-acre site has a gradient of 1 in 40 which has been exploited to give the factory two working levels—both accessible to lorries.

Manufacture starts on the upper level with unloading, storage, preparation and cooking. Products are then gravity fed to the lower level for can filling, sterilization, packing, warehousing and finally dispatch.

The presence of old coal mines underneath the site meant careful positioning of the component buildings. The can factory is therefore at some distance from the food production unit

WILLIAMS & WILLIAMS ALUMINEX SIDEWALL GLAZING HAS BEEN USED TO CLAD

the service gantry which takes finished cans across to the main factory for filling

and the covered footway connecting the two factories.

and is linked to it by a service gantry which feeds the finished cans into the appropriate stage of production process.

forward looking building products **WILLIAMS & WILLIAMS**

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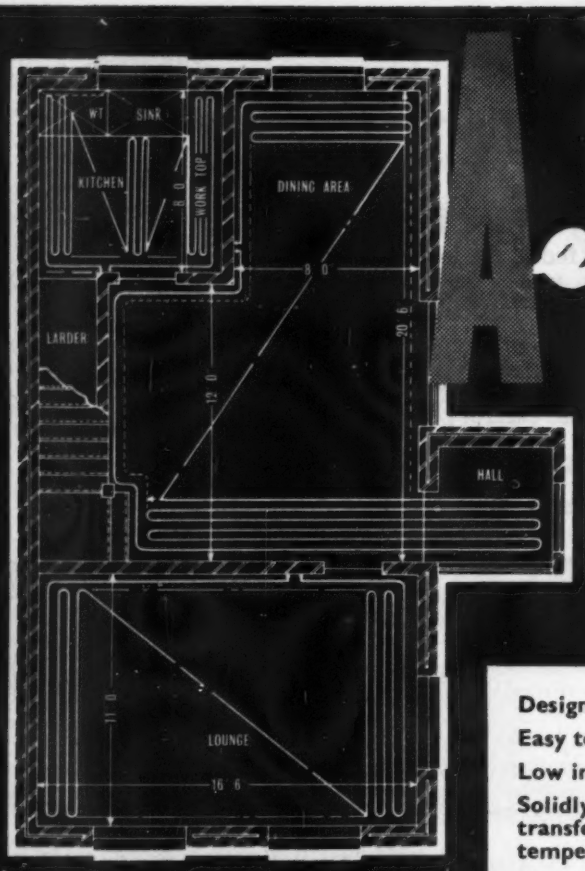
WILLIAMS & WILLIAMS, RELIANCE WORKS, CHESTER · WILLIAMS HOUSE, 37-39 HIGH HOLBORN, LONDON, W.C.1



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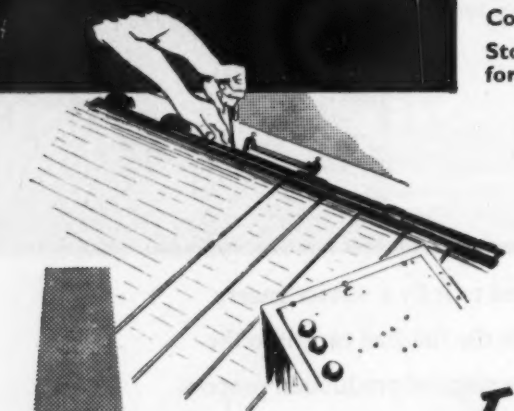

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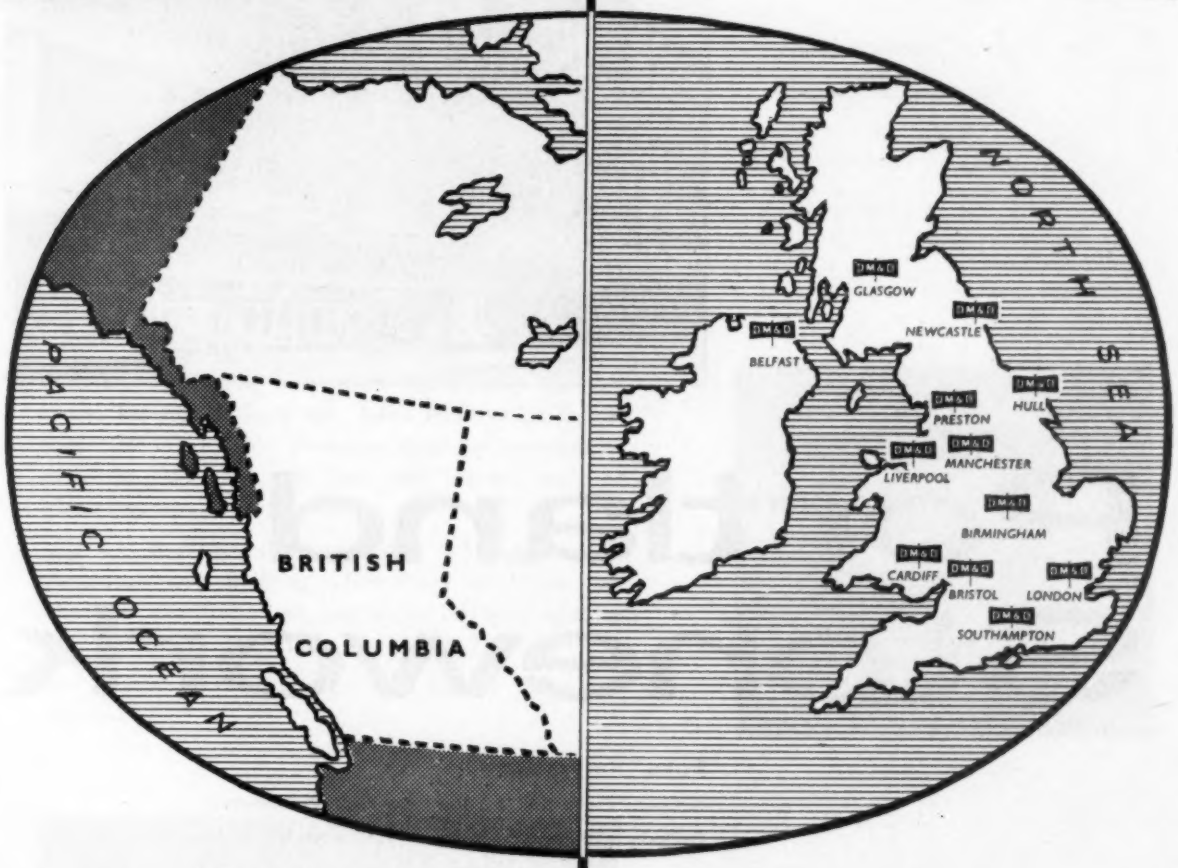

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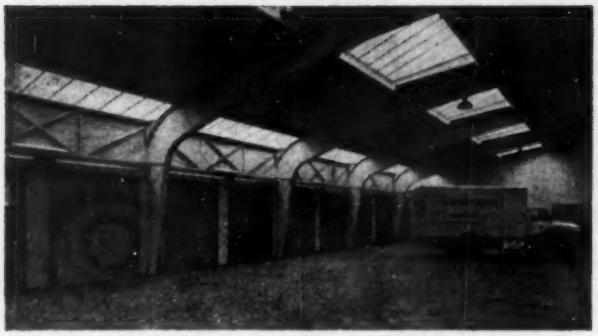

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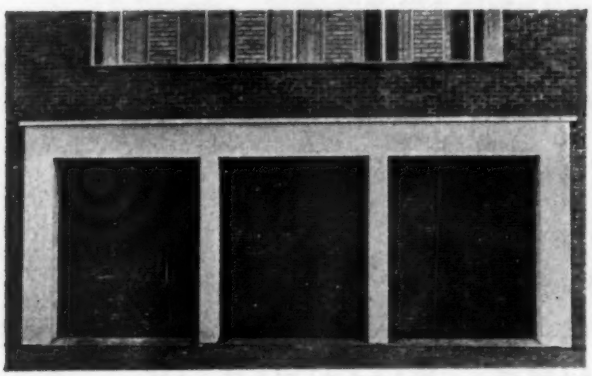

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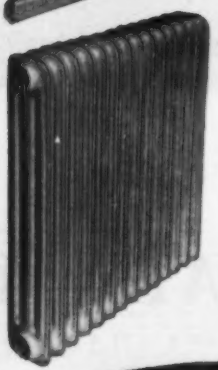

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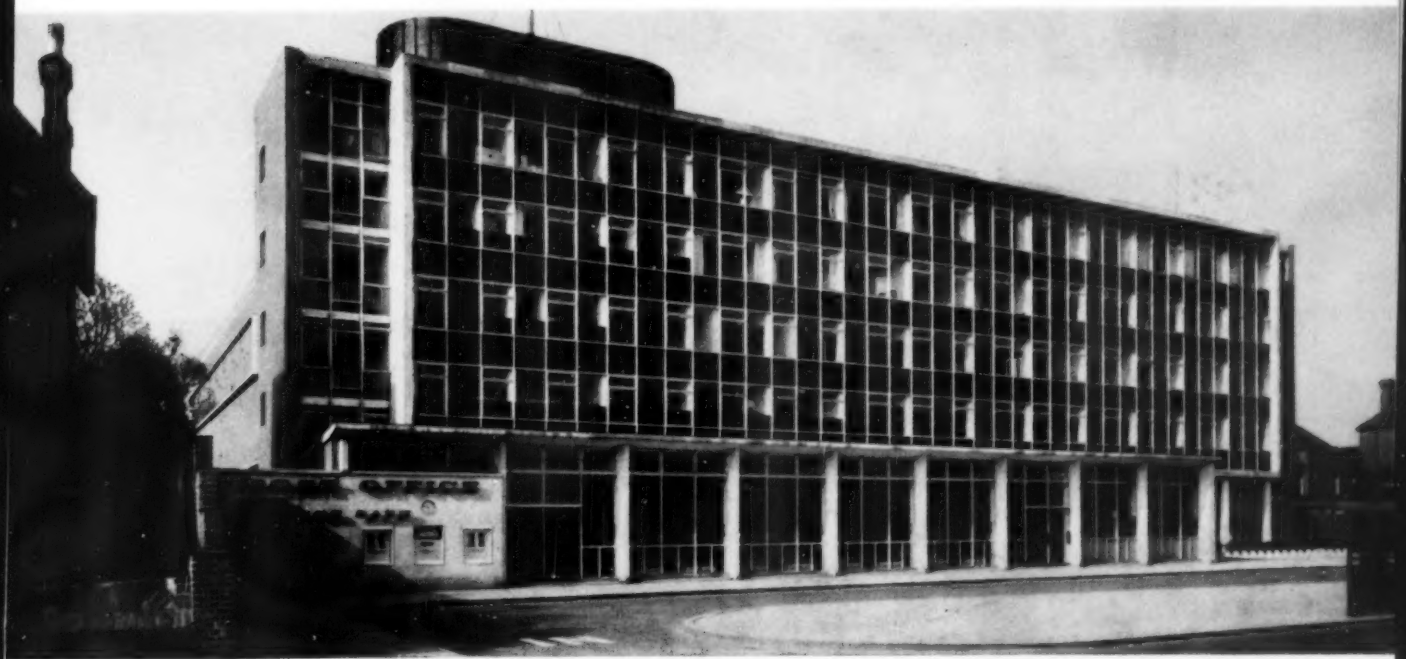
▲ *The lower courses on the ground and first floors of the Sunbeam Electric Limited factory at Nerston, East Kilbride, are faced with Turquoise "Muroglass". Factory owners: Scottish Industrial Estates Limited. Architects: Wylie, Shanks & Underwood, Glasgow.*

▼ *Spandrel cladding on the Luton Head Post Office is in Grey "Muroglass". Daffodil "Muroglass" has been used below the sills of the office at the north end of the building. Designed in the Chief Architects Division of the Ministry of Works.*



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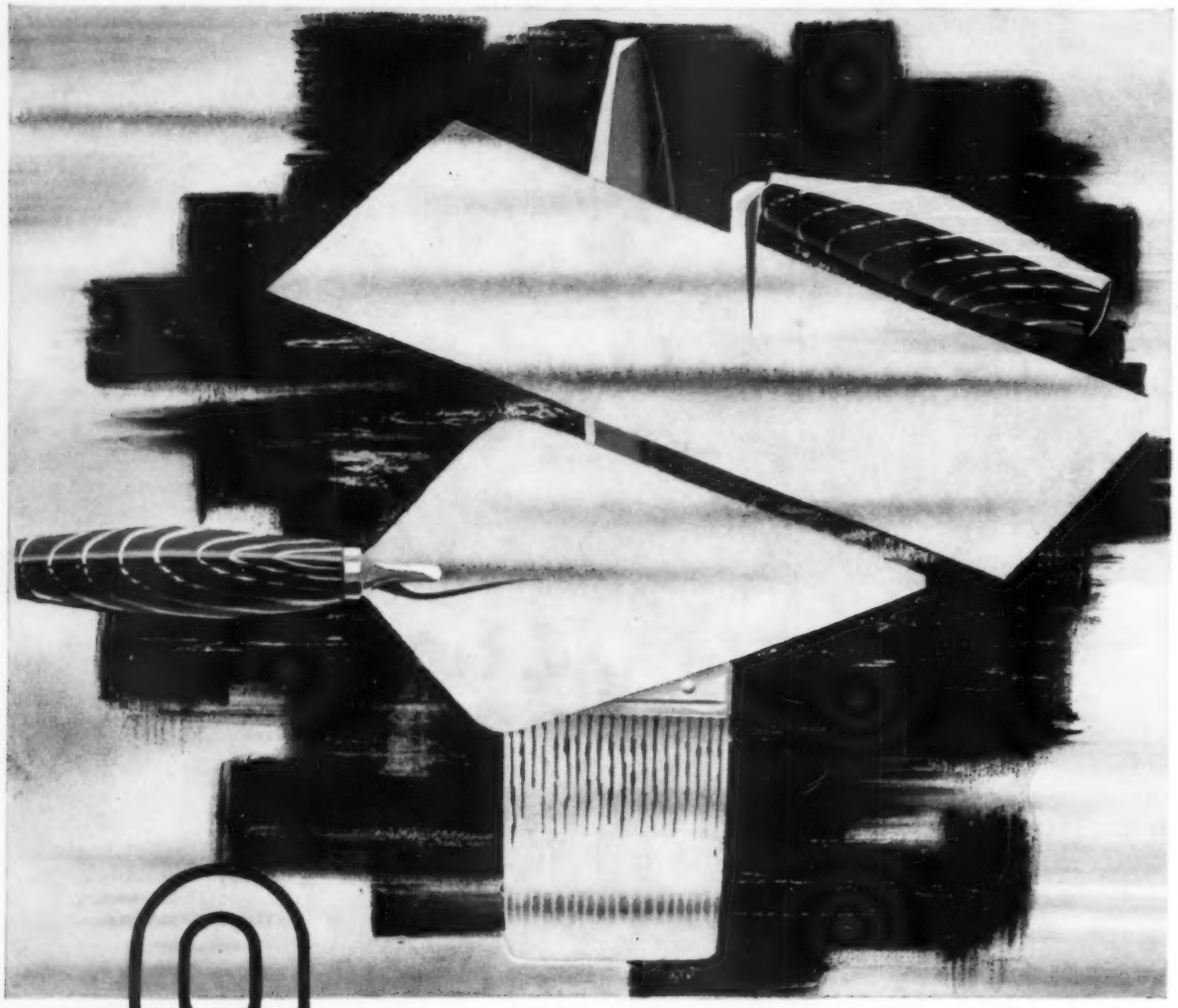

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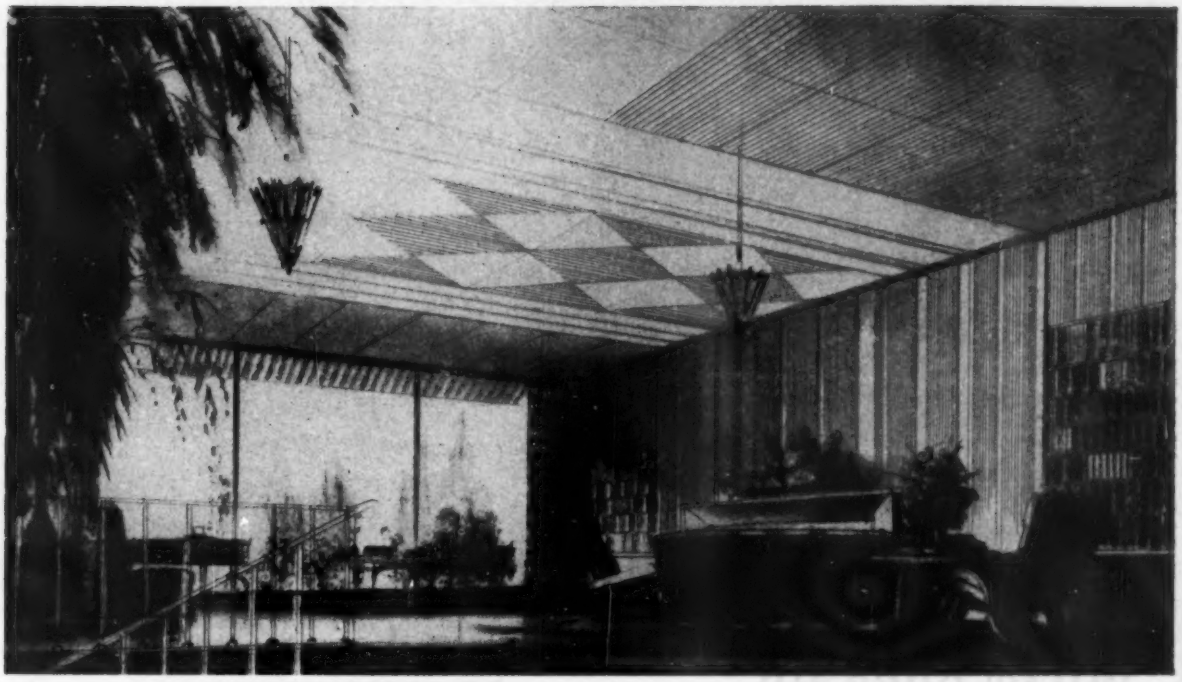

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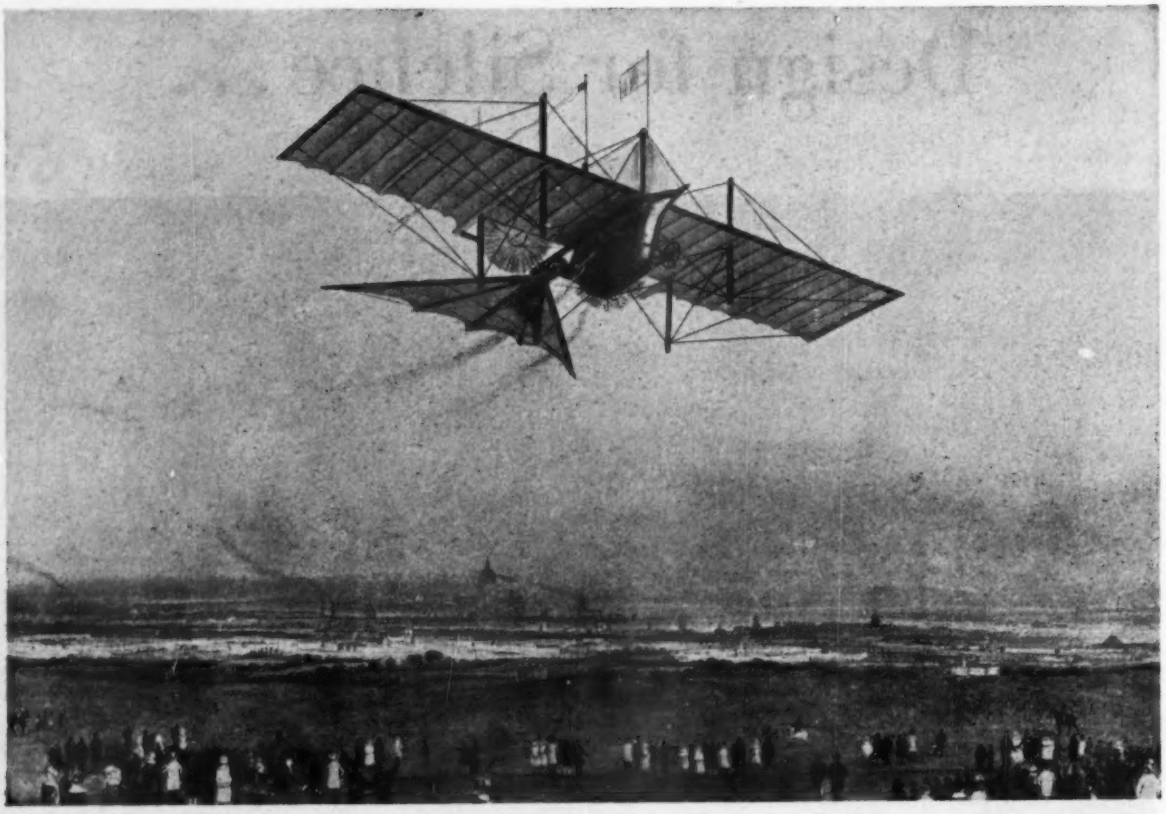

The first carriage of the Aerial Transit Co., 1843

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That is why so many lighting installations incorporate L.E.F. Raising and Lowering Gear

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Electrical Contractors: Freeman Electrical Company (London) Ltd.
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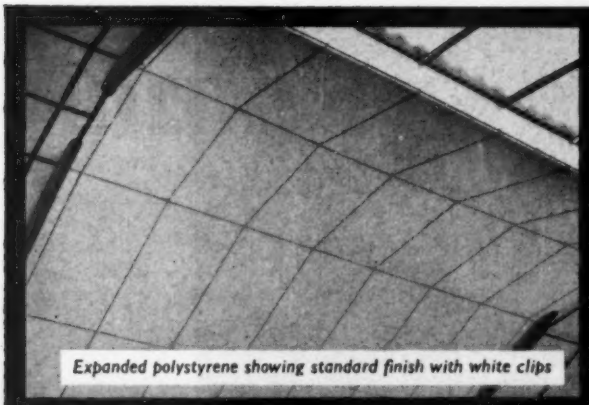
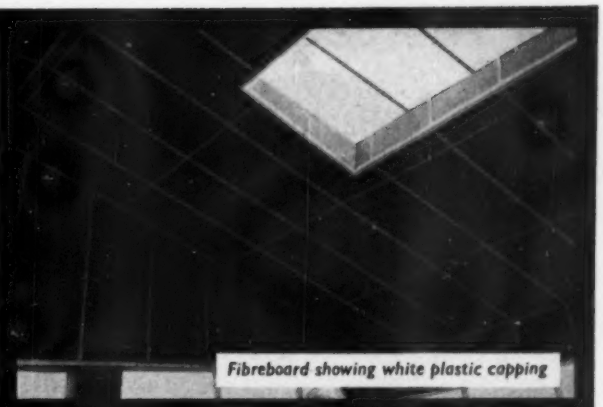
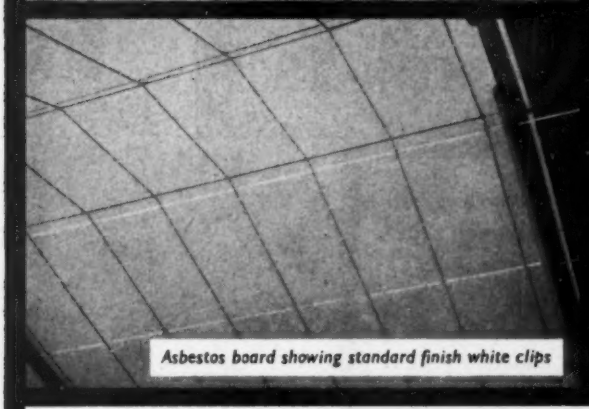
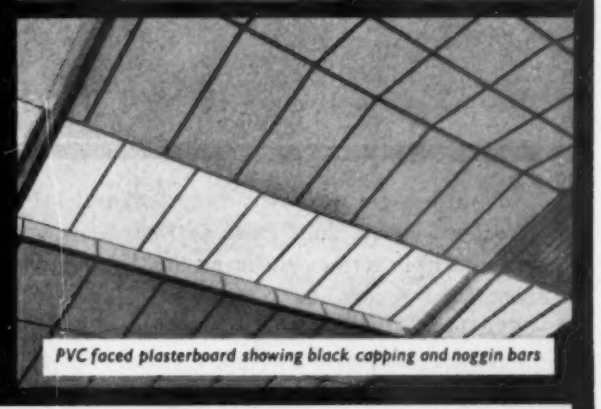

Expanded polystyrene showing standard finish with white clips


Fibreboard showing white plastic capping


Asbestos board showing standard finish white clips


PVC faced plasterboard showing black capping and noggin bars

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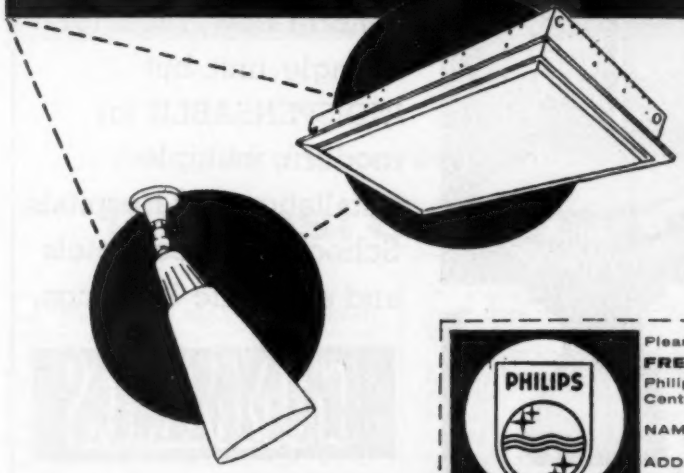

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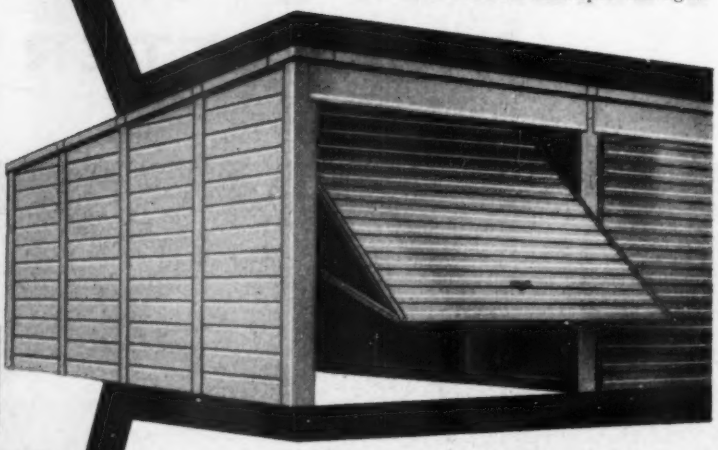

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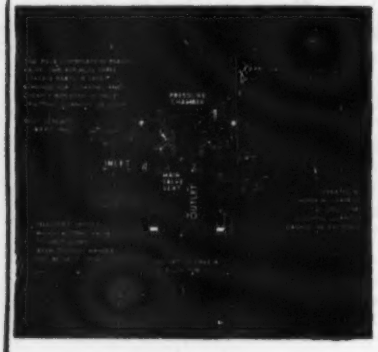

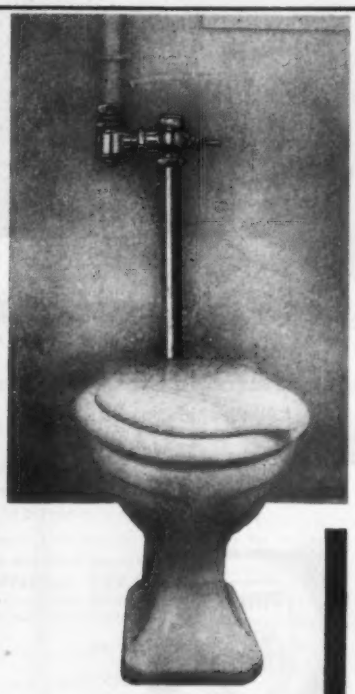

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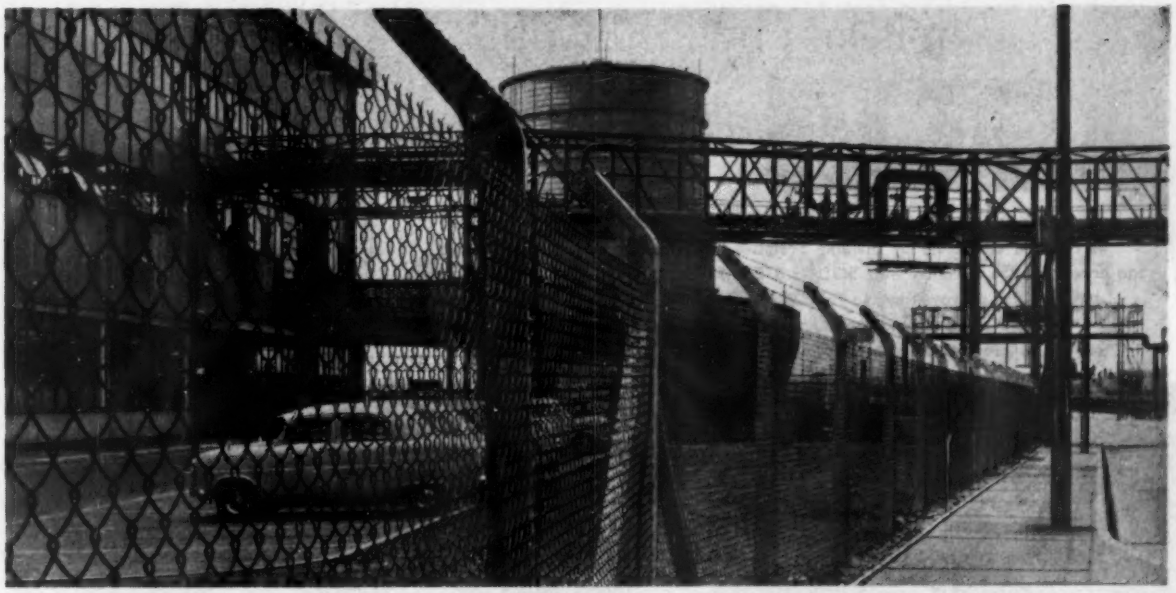

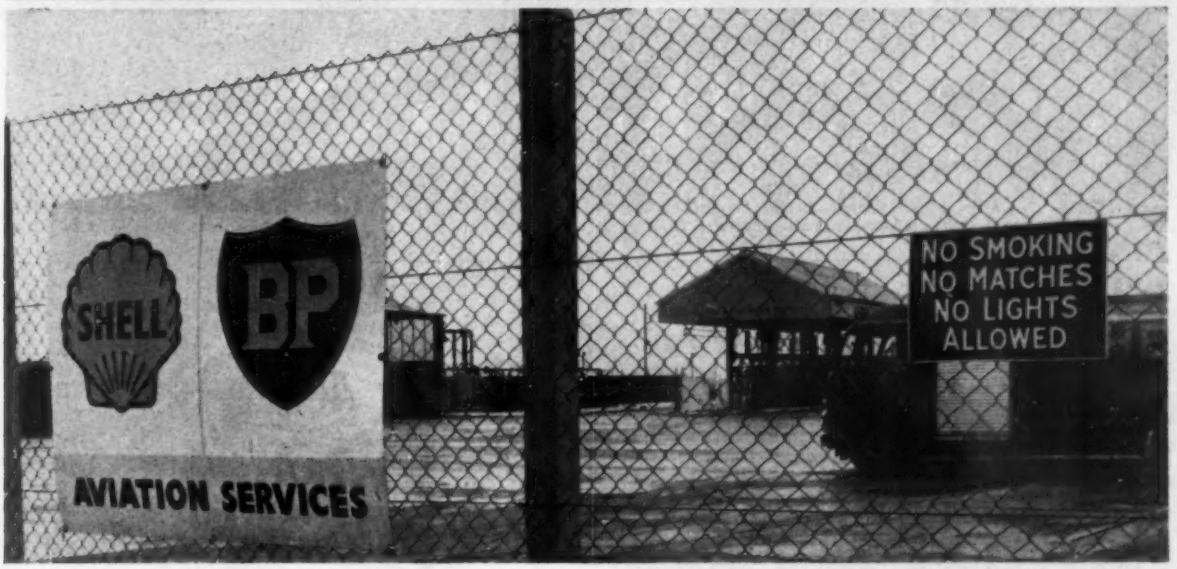

'Plastalink' chain link fencing made by Prove Brothers Ltd. from wire covered with 'Welvic' p.v.c. by Tinsley Wire Industries Ltd.
Above: At the works of Ford Motor Company Ltd.
Below: At the Shell-Mex and B.P. Ltd. depot at London Airport.

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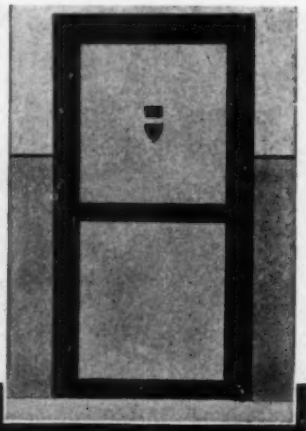

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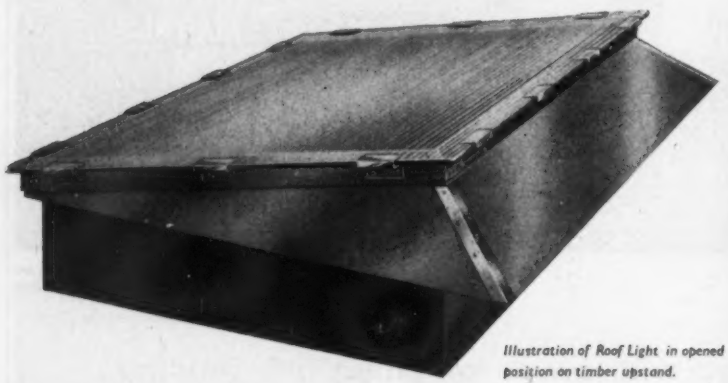

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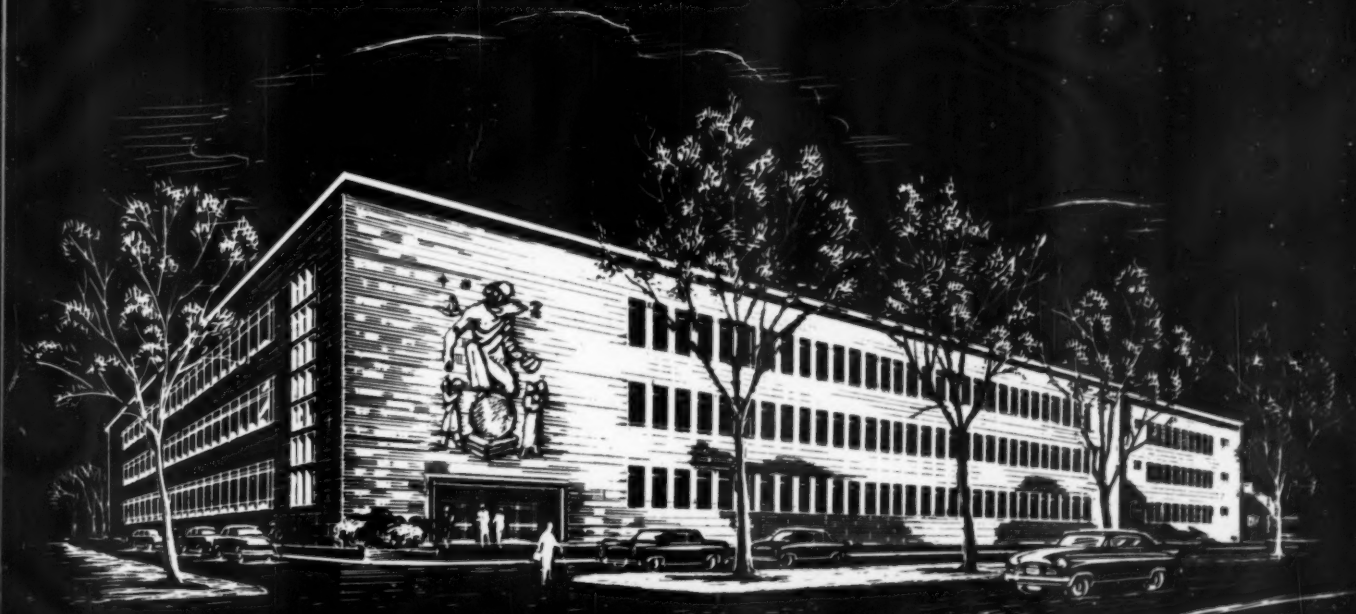

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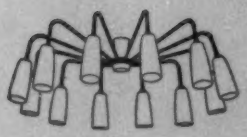

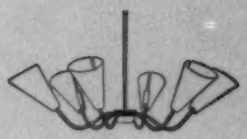

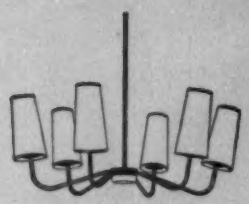

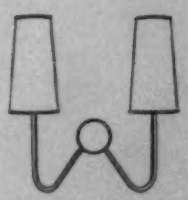

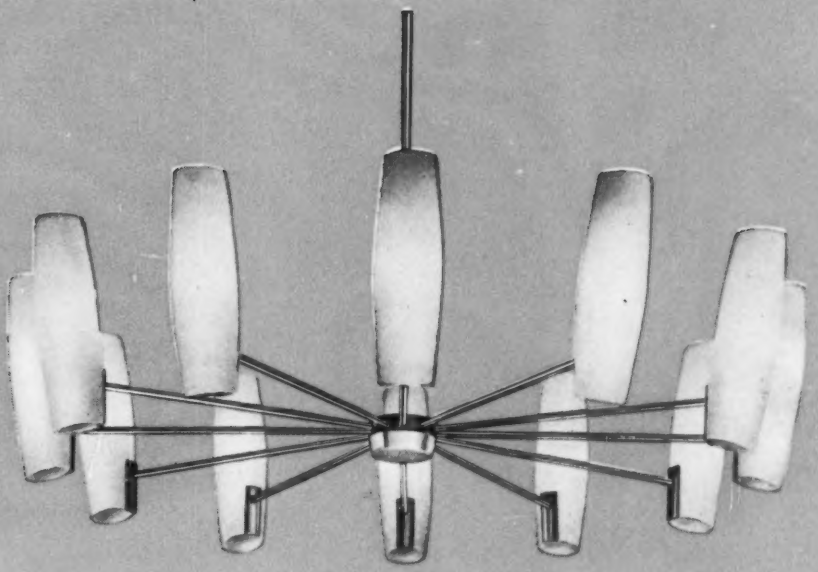

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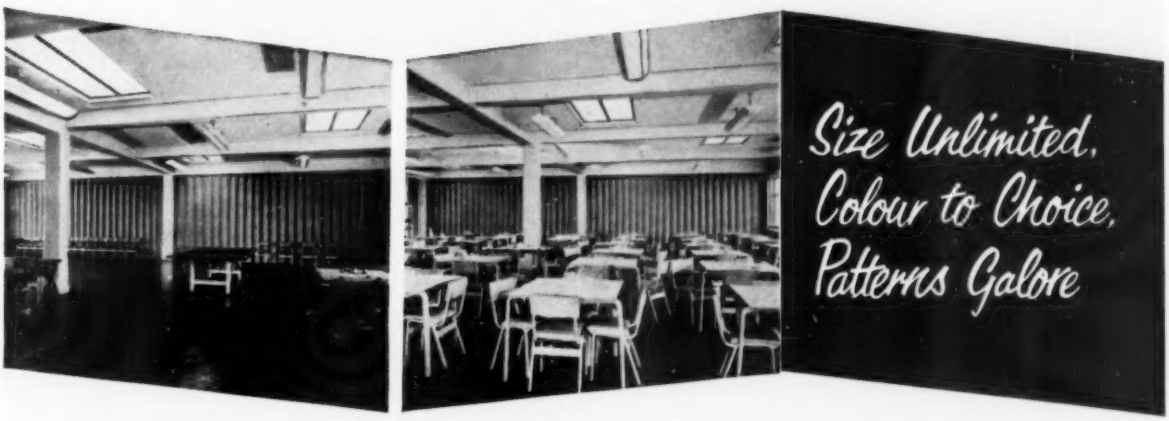

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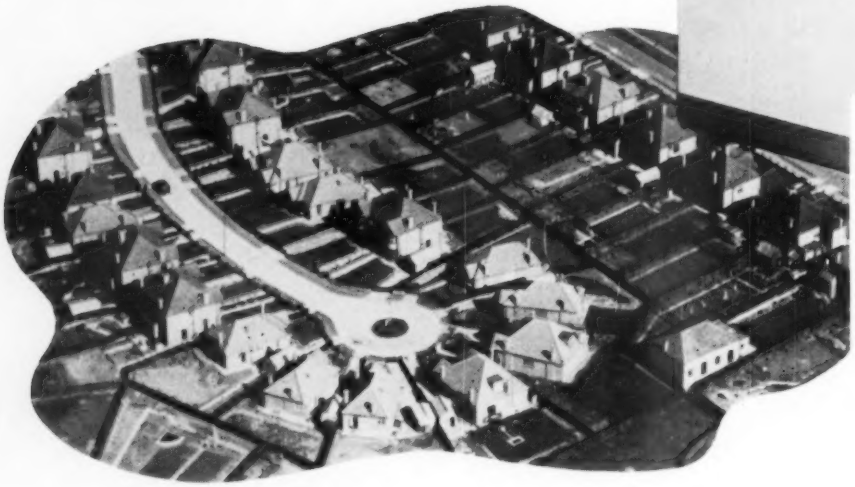

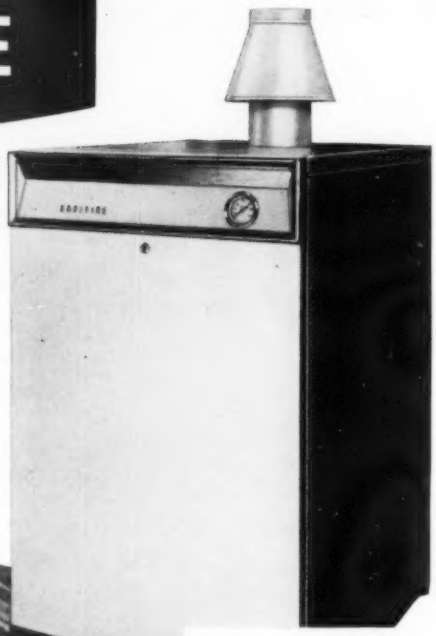

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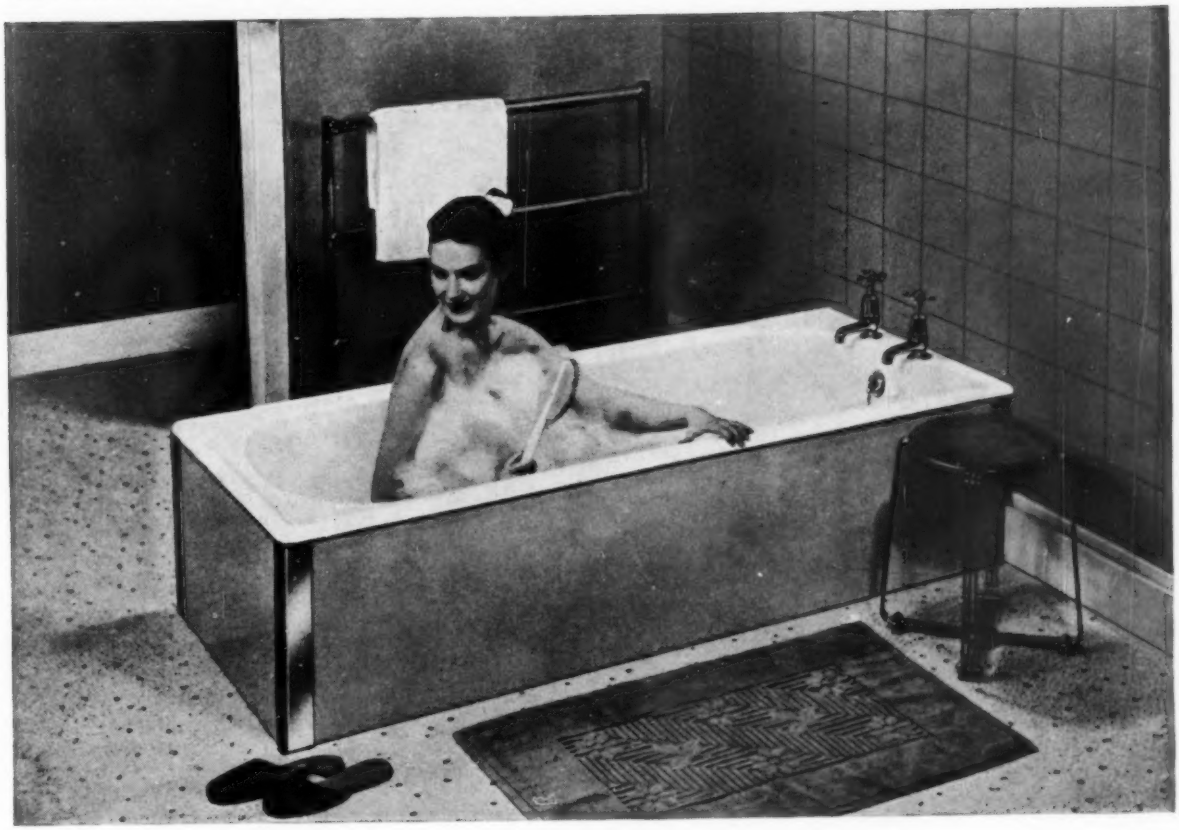

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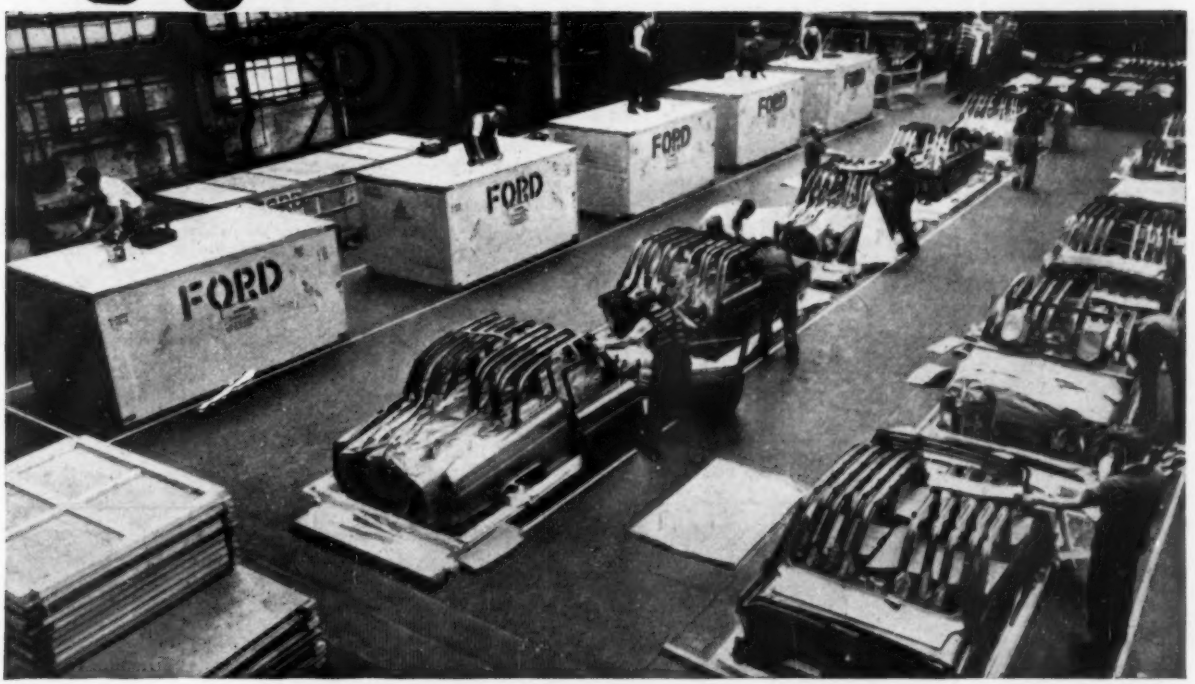

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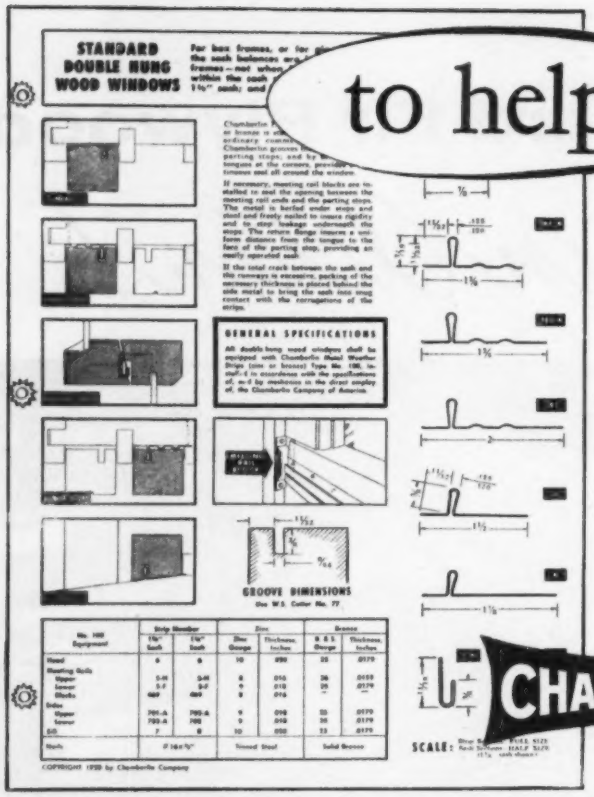

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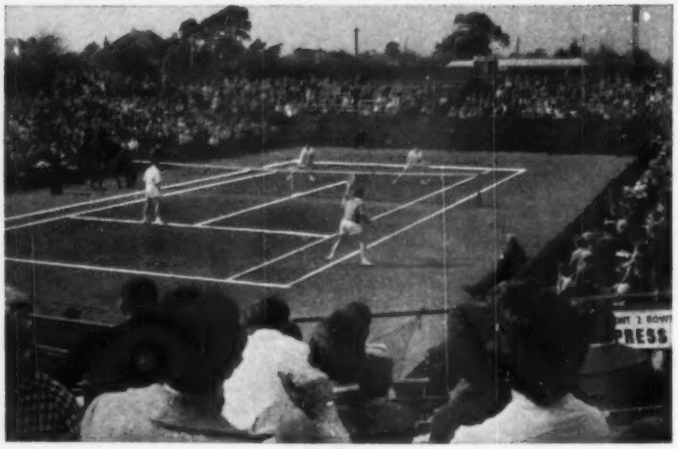

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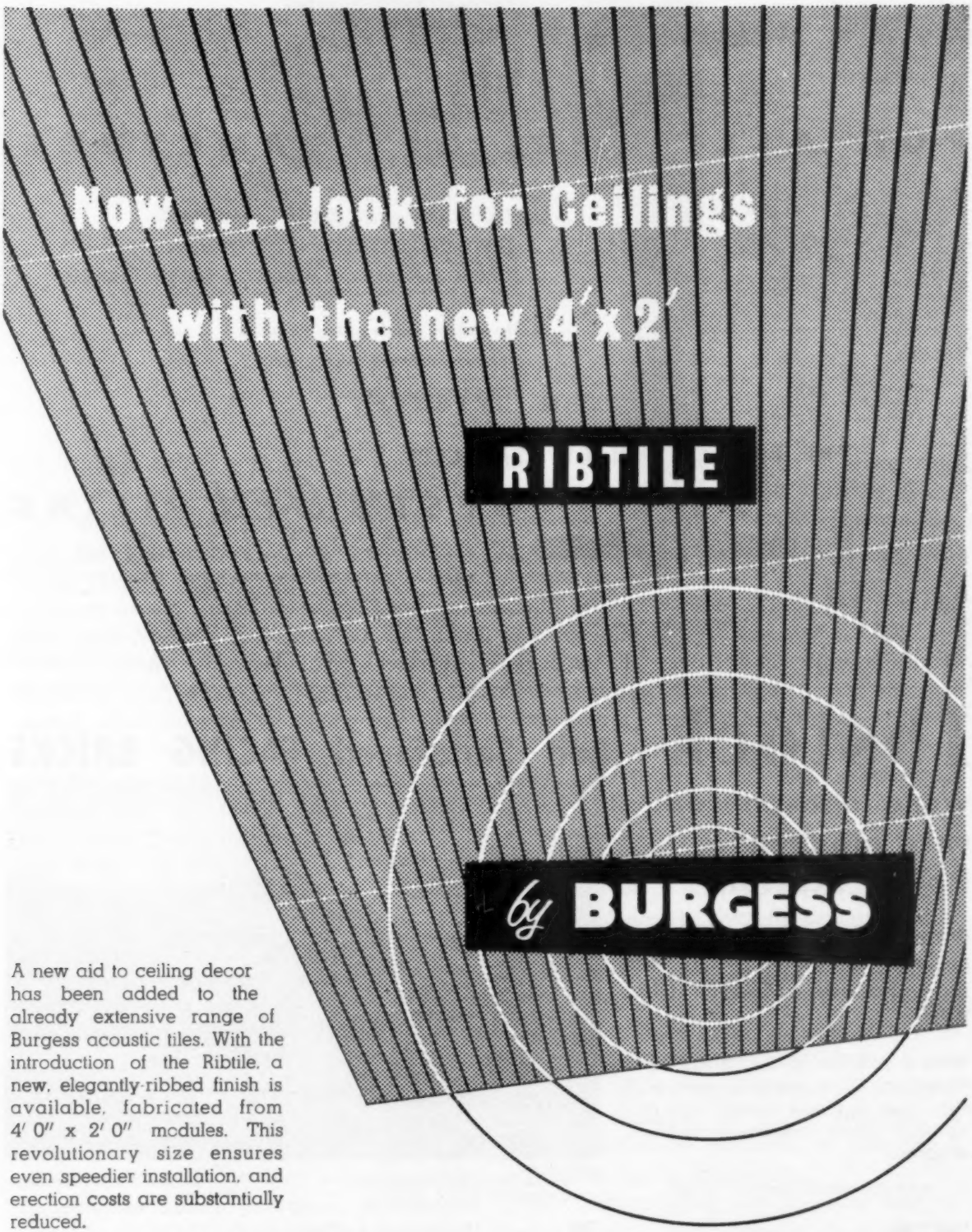

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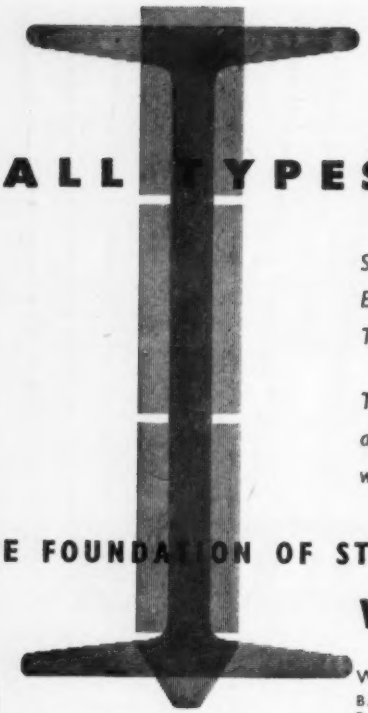

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Vol. 216 No. 17

THE ARCHITECT & BUILDING NEWS

2 December 1959

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BUILDING HIGH

THE High Buildings Exhibition* on view at County Hall is sited most appropriately. Through the windows can be seen the 330 foot high Shell tower, where the steel erectors have finally reached the top; and across the river is Thorn House, in St. Martin's Lane, unexpectedly visible. Upstream by the Tate Gallery, the new Vickers building is beginning to emerge, and, in the City, the West End, and farther afield, other high buildings are talked about. It is clear that high multi-storey offices and flats are going to add a third dimension to large areas of London as Wren churches did to the City. But will they be so successful? The result will depend on the ability which goes into their design, and the care which is taken in their siting, and their height. This last point is all-important. Some of the new high blocks might have gained aesthetically by being taller or thinner.

The high-building code which the L.C.C. adopted a few years ago to guide its consideration of new proposals seems to have worked fairly well, but it is already becoming clear that something more positive may be needed. A thirty- or even a twenty-storey building makes an enormous punctuation point in a low town like London and many people had not realized how extremely visible these new buildings would be. They confront us continually from new and unexpected places. The Shell tower can be seen from Victoria Street as a background to Westminster Abbey and Big Ben. Even the comparatively low Bowaters building can be seen right across Hyde Park from the Dorchester Hotel.

This frequent intrusion of the skyline has to be borne in mind when new high buildings are proposed, and the fullest investigation should be carried out on sightlines before planning permission is granted, if unfortunate accidents, like the protuberance seen over the National Gallery and the new B.B.C. building seen from the top of Regent Street, are to be avoided.

At the same time a renewed search should be made for the right sites. There are places in London which need the emphasis of a high building. Along the river, for example, and at great road intersections like the Elephant and Castle, and St. George's Circus, or at suburban centres such as Swiss Cottage or Camberwell Green. It is to be hoped that the authorities will continue their efforts to guide developers to the right places, and to prevent any tendency for high buildings to clump together, in merely fashionable positions, as they did a generation ago in Manhattan.

One high building can make or mar an entire district. The responsibility of all concerned is great. The next few years will show us whether to be glad or sorry for this new freedom which has come to architectural design in this country.

*Page 551

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EVENTS AND COMMENTS

THE BUILDING EXHIBITION II

I hear that, judging by the number using the R.I.B.A. clubroom, the architects' attendance at the Building Exhibition was considerably down during the first week. The lack of architects may well be explained by the fact that they are too busy to attend or to send their staffs, although the late evening opening should have made it possible for assistants to attend in their own time. On the other hand, it may be that architects are reading their papers more thoroughly and are better informed than they used to be. Judging by what I saw on three half-day visits, there is no absolute necessity to go to the Building Exhibition if one wants to keep up to date, but it provides a useful refresher course. In the old days when the exhibition was smaller it could be seen comfortably in half a day and that included visits to the stands where new things were being shown. Now the new things alone would take more than that time to see. "New" is used here as being "less than two years old", for many of the "new" things have been seen elsewhere before and have been advertised for some time.

By the time you read this the house-breakers will be in preparing Olympia for the circus. I hope that you found "Question and Answer" on the second floor of the Empire Hall and were not too tired to have a go. It was an architectural and building quiz with no prizes. Someone had taken a great deal of trouble in preparing it and it was a good mixture of ideas. Pictures of buildings to be dated, the scale of drawings, the naming of small building components, the geographical naming of sources of materials, and so on. I fear my patience gave out about half-way round, but by then I had scored quite a lot on the building questions and very few on architecture.

Pursuing my search for coffee after 3 p.m., see last week, I discovered that it could be obtained in the R.I.B.A. Club round about 6 p.m., and as an alternative to tea at all times in the Overseas Visitors' Lounge. The value of this welcome refuge for foreigners was considerably reduced by the fact that no alcohol could be obtained there. Perhaps the licensing laws will be revised before the next exhibition.

I must apologize for failing to identify the decorators of the R.I.B.A. clubroom last week. They were, in fact, R. J. Worboys and P. Noel Perkins.

SCULPTURE IN CIMENT FONDU

The comparatively new techniques of modelling and casting sculpture in ciment fondu are almost unknown outside the profession. Mr. John W. Mills, who teaches in the sculpture school at the Royal College of Art, has written a book about it. The book, published by the Contractors Record Ltd., was launched last week at the opening, by Mr. Basil Spence, of an exhibition of work in ciment fondu at the Building Centre. I believe the idea of putting on the exhibition came originally from Mr. H. T. Cadbury-Brown, president of the A.A., who also teaches in the sculpture school of the R.C.A. The show is well worth seeing, not only because of the techniques and finishes of this building material put to a new use, but because it provides in quite a small space a very good selection of the work of some of our well-established and some of our not-so-well-known and young sculptors. There are pieces for all tastes and pockets.

Ciment fondu can be used for casting or modelling, and some of the largest examples, shown in photographs, were modelled on wire-mesh armatures *in situ* on buildings. A wide variety of finishes can be obtained by incorporating other materials in the surface treatment. I understand, for I have not yet read the book, that ciment fondu work can be used for outdoor sculpture but is likely to require some maintenance. Rough textures, which may allow water to lodge, are liable to frost attack, and cracks must be treated at once if rusting and subsequent spoiling of the armature is to be avoided. A protective coat of wax can be used, and it is thought likely that synthetic resins may soon be available as protection. John Mills' book costs 16s. The exhibition is open until January 2, 1960, and it is well worth a visit. The promoters are to be congratulated on an excellent idea.

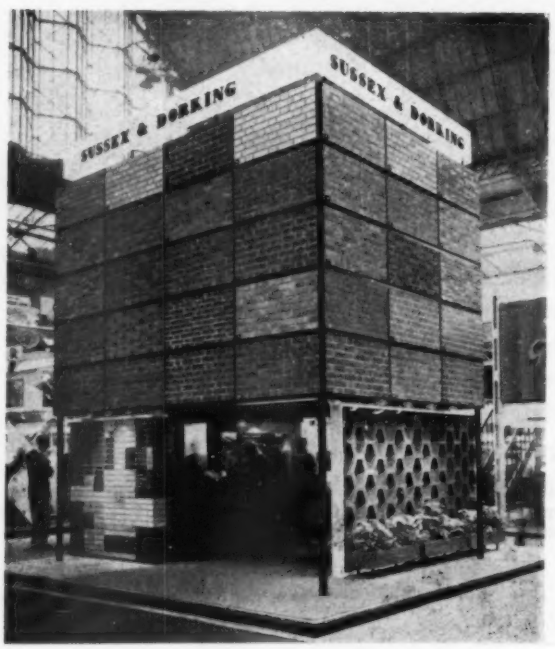
COKE-BURNING APPLIANCE HANDBOOK

The Gas Council has published the third edition of this dictionary of appliances. It is undoubtedly useful and represents a great deal of hard work, admirable co-operation, good will and so on. But, as a piece of modern book production, it does not rank very high. Compared, for example, with the latest publications of the C.U.C., it is like some Victorian ironmongery catalogue. Many of the plates are poor and appliances are swamped in ghastly fire-surrounds, the typography is, to say the least, undistinguished. The whole book needs redesigning—it would make it even more useful and a pleasure to use as well.

THE VICTORIAN SOCIETY

The high Victorian architecture of Drapers' Hall provided a most suitable background for the fashion parade arranged last week as part of a reception given by the Victorian Society. Members and guests, having been handed their programmes by a pair of magnificent flunkeys, were received by the chairman, Lord Esher, and the two vice-chairmen, the Countess of Rosse and

The Sussex and Dorking Brick Co's stand, at the Building Exhibition. Designers: W. J. Saunders & Son, F/A.R.I.B.A.



Mr. John Betjeman. The crowd was very large—150 larger than expected—and that may have accounted for the short commons of the advertised champagne buffet. The decks having been cleared, in a flash, of everything edible except the mustard-and-cress decoration, the company adjourned to the Livery Hall, where they sat on either side of a raised gangway.

Since B.B.C. Television had honoured the society by attending with cinematograph cameras, those present were subjected to the unwelcome beams of a number of arc lights of the most dazzling intensity. Thus incommoded, the distinguished company—we noted at least six architects—fidgeted for some minutes before the parade began at a quarter to eight, whereas it had been advertised for half-past seven. This delay may have been explained by the apparent breakdown of the semaphore signalling system between the official in the body of the hall and the engineer in the gallery operating an improved, but, if we may venture an opinion, raucous, mechanical device by which suitable—and sometimes most unsuitable—music was produced for the enjoyment and edification of the company.

The dresses, lent by museums and individuals, were delightful, and were charmingly shown off by suitably Victorian-looking ladies, friends of the society. The glaring light, however, was a great bore, and once again I ask: Is your TV really necessary? The evening was a distinct success and would have lasted longer if fewer people had not rushed off to find a restaurant before they died of hunger. However, it was not so easy to leave, for chaos reigned in the ladies' cloakroom, a curious state of affairs at, of all places, Drapers' Hall.

KENT ARCHITECTS' PARTY

The annual dinner and dance given by the Kent County Architect's Department is a tremendous affair. Not only is it a beano for the department, with its wives (baby sitters permitting) and sweethearts, but it is an occasion for entertaining the many consultants—architects, engineers and quantity surveyors—who do work for the county. This year the party was held at the Tudor House, Bearstead, and, of the three hundred present, two hundred represented the staff, and one hundred the consultants. The principal guests were the County Education Officer, the County Surveyor and the Chief Constable of Kent, all of whom were new to their appointments since last year. Among the consultants there were many well-known fans from London. The County Architect, Mr. H. T. Ashley Smith, welcomed the guests, and the Chief Constable replied. This done, the serious part of the evening—dancing—continued, as they say, till an early hour. In the past twelve months the Kent County Architect's Department has handed over new buildings to the value of over four million pounds. It has clearly well earned this jolly evening.

A NEW FILM ON TIMBER PRESERVATION

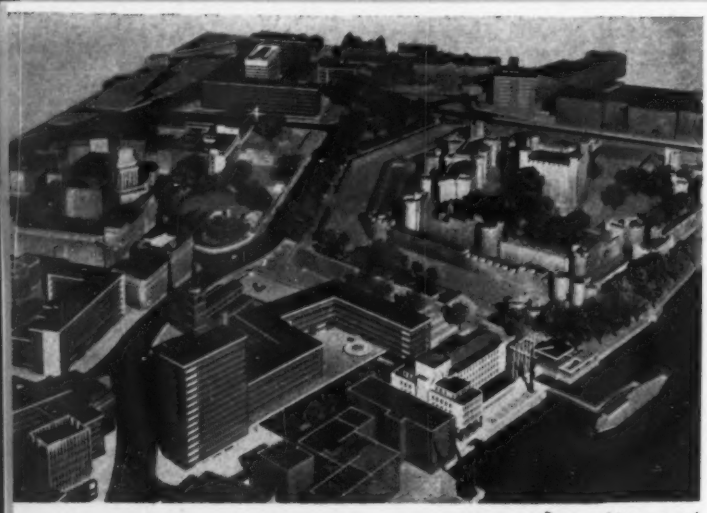
"Timber Exposed" is the title of a new film made by Hicksons Timber Impregnation Co. The photography is good and the commentary is straightforward and well spoken, but the film does not tell its story with enough punch. We were told afterwards that the main objects of the film were to stress the importance of pressure impregnation and to build up confidence in the process by showing the scientific background to the production of the preservative tanalith "C". That it was necessary to mention these two points at all is a criticism of the film. In fact, pressure impregnation was hardly shown—the process would have been incomprehensible to anyone who did not already know about it—and the effort to show scientific background resulted in some very corny and unconvincing laboratory shots. What was really needed was a tighter script based on a clear analysis of the lesson to be taught. This film, like so many others, tried to be all things to every type of audience. This criticism should not be allowed to obscure the remarkable properties of this preparation nor the efficacy of its application to timber in the most exposed positions.

Abstract sculpture in sheet metal by Alexander Calder in front of America House, Frankfurt, Germany. The sculpture is owned by the U.S. Consulate-General in Frankfurt

PLAN FOR EAST BERLIN

While the fencing over the political future of Berlin goes on there can, it seems, be no possibility of a unified plan as envisaged in the recent international competition. Indeed, the optimistic road-making by West Berlin during recent years, which would have helped an overall plan, is likely to be brought to nothing by the new East Berlin rebuilding plan announced last week-end. Little information is a present available here, but models exist and show a self-contained East Berlin. The *Sunday Times* calls the style "startlingly modern" and says it is a complete breakaway from the "birthday cake" Soviet style. This will not surprise anyone who has followed recent trends in Russian architecture. Apparently a number of schemes are on view at an exhibition in East Berlin, one being by a Leningrad architect, A. Naumov, and another by Professor Henselmann who, when I was in East Berlin in 1957, was chief architect and had been responsible for the planning of Stalinallee. His new scheme includes a 1,000ft TV tower near Marx Engels Platz and a parliament building on stilts. This design is given a prominent place in the exhibition, but it is not clear from the only report I have seen whether this or any of the other schemes has been officially adopted. One scheme includes a "night-life quarter of high cultural level", near the Friederichstrasse Station; this will be a nice change from what used to go on there before the war, but I rather doubt whether it would succeed in its stated object of luring the foreign tourists away from the bright lights of West Berlin's Kurfürstendamm. The exhibition, it appears, ignores the results of the West Berlin sponsored international competition announced last year.

ABNER



Tower Hill model

Letters to the Editor

Bricks

Sir,—A suggestion made in your leader of November 25 issue that a brick library would be a useful service to all concerned in building, urges me to refer to your issue of November 18, in which Lord Hope, Minister of Works, is portrayed examining such a library, which is in existence at the Building Centre.

It is not yet complete, but it aims to include at least 1,000 panels with the necessary information about them.

Yours, etc.,
F. R. YERBURY,
Director,
The Building Centre.

Bellrock Stand

Sir,—In David Jenkin's article last week on the Building Exhibition he describes the Bellrock Stand and is very complimentary about it.

We would, however, like you to correct one outstanding error, in that he stated "the only drawback was that it did not make use of the product in the design".

We would like to bring to your notice that all the walls on the ground floor of the stand are made of Bellrock Panels and that they support the load of the first floor. Furthermore, the main feature of the stand—a wall 16ft high by 6ft wide by 4in thick—is constructed entirely of Bellrock Panels.

One further point of interest is that the whole stand is designed to a basic 4in module.

Yours, etc.,
S. H. FOWLER,
Director,
Bellrock Gypsum Industries Limited.

A.B.S. and Publication of a Diary

Sir,—Every year about this time I receive a pamphlet with my R.I.B.A. Journal, inviting me to purchase a diary for the next year, from an association which admits that its members are by no means wholly architectural.

Every year on receiving this pamphlet I make representation to the R.I.B.A. that it should take steps to have a somewhat similar diary published, the profits of which should go to the Architects' Benevolent Society, and every year nothing happens.

The R.I.B.A. is continually asking us all to contribute more to the A.B.S. funds by means of insurances and attendance at the annual ball, yet in a matter like this, that would bring in a steady income, it does nothing.

Yours, etc.,
SIDNEY LOWETH.

Basildon Housing and the Radburn Idea

Sir,—I note that Mr. Ritter has used my article as the medium for the deification of Radburn in his letter which you published last week, and I respect his religious fervour for this principle. He is quite right to say that the connection between the rear access housing at Basildon and Radburn is a slender one, and the term "modified Radburn" was used by me only as an expression in the absence of a precise name for a system not yet widely known. The changed economic conditions over a quarter of a century which has elapsed between the two experiments has left an equally slender connection between the problems to be solved by them.

Although "footpaths with underpasses and bridges", by means of which "one can walk from one part of the community to another without encountering a motor-car", are a desirable ideal in a housing area, they remained in the academic sphere at the time of the Basildon experiment and layouts, due to the economic and social conditions then prevailing and controlling the problem of large-scale subsidized housing development. The object of my article was to show what, in fact, had been achieved on the ground at Basildon during the last few years as an attempt to meet the housing problems of the day, and in no way to suggest that it was an alternative to the ideals which I, and many other members of our profession, share with Mr. Ritter. The ultimate can rarely be achieved unless experiments which involve both successes and failures are made towards that end, and all I claim at Basildon is that we did make these essential experiments and thereby relieve the monotony of academic dispute.

Yours, etc.,
ANTHONY B. DAVIES,
Chief Architect/Planner,
Basildon New Town.

Sir,—I should be grateful if you would allow me space to reply to Mr. Paul Ritter's scathing indictment of the housing layouts recently illustrated of Basildon New Town. I am perhaps not the target he was aiming at so much as Mr. Basil Spence and Mr. Anthony Davies, who were adherents of the Radburn idea. I tried to make it clear in the description of my own particular contribution that in this case I had elected to plan on the converse principle and that my layout had been illustrated in order to provide a contrast to the other two.

Mr. Ritter is, I think, a little over-enthusiastic about the Radburn idea as applicable to large-scale, low-cost housing in this country. I imagine that the best of the Basildon layouts designed on these principles are fair examples of what can be achieved with some regard to the limiting factors of cost and the social requirements of the people to be housed. It was precisely because of these limitations that I decided to plan on non-Radburn principles, as it seemed to me that the compromise which otherwise would essentially have had to be made involved having the worst of both worlds. This, I take it, is what Mr. Ritter suggests has, in fact, been achieved and what he objects to!

Mr. Ritter's penultimate paragraph, so far as I can see, bears no relation whatever to the subject matter and seems to be pure effervescence. Coming back again to the subject in his last paragraph, Mr. Ritter states: "The best of the genuinely Radburn development in Britain, *as studied by myself*, justifies all the claims made for the idea: more economic, more beautiful and more efficient than any other way." This is fine, but would Mr. Ritter please elaborate a great deal on this statement and give definite examples.

Controversy of this kind is extremely useful and stimulating if properly related to definite achievements rather than to unsupported and, what I feel to be, over-emphatic and over-personal assertions.

Yours, etc.,
WILLIAM CRABTREE.

TOWER HILL REDEVELOPMENT

A NEW development for the Tower Hill area of London was announced on Friday.

This joint enterprise between the London County Council and the City of London Corporation will give a new setting for the Tower of London, at present surrounded by large areas of bomb damage and within a road network which is becoming increasingly congested. The scheme, which in area is divided almost equally between the L.C.C. and the City Corporation, is expected to cost the two authorities about £5 million for land acqusition and road development. Private enterprise will be responsible for the building development, and this will probably add a further £20 million to the bill. Mr. B. G. Arthur, of the City Corporation, said he hoped that the scheme would go ahead as "quickly as circumstances permit" and he forecast commencement of work in 1961-62.

The centrepiece of the 50-acre development area will be a wide pedestrian concourse sloping gently down from Trinity Square to the river embankment, terminating in a large viewing space with a restaurant and entrance to the Tower of London, and a reach of waterfront. The whole of this paved space will be bordered by shops, and gardens, and will be surmounted by an improved higher level concourse in the area of the present Speakers' Place. Vehicular traffic, other than that necessary for service to the Tower of London, will be excluded from this area.

The main area of redevelopment lies within the City boundary to the west of the pedestrian concourse. Five-storey office buildings forming this group are shaped to preserve views of the Tower and to afford ground-level space where it best offsets other features of the scheme. The 16-storey "tower" at the western end of this layout has been placed at the lowest part of the site and has been farthest removed from the Church of Allhallows and from the Tower so as not to impede the distant view of the White Tower from the west. Great care has also been taken to ensure that this tall building does not compete with the tower of Allhallows Church. Extensive three-level coach and car parks are envisaged under a podium, approached from the adjoining Lower Thames Street.

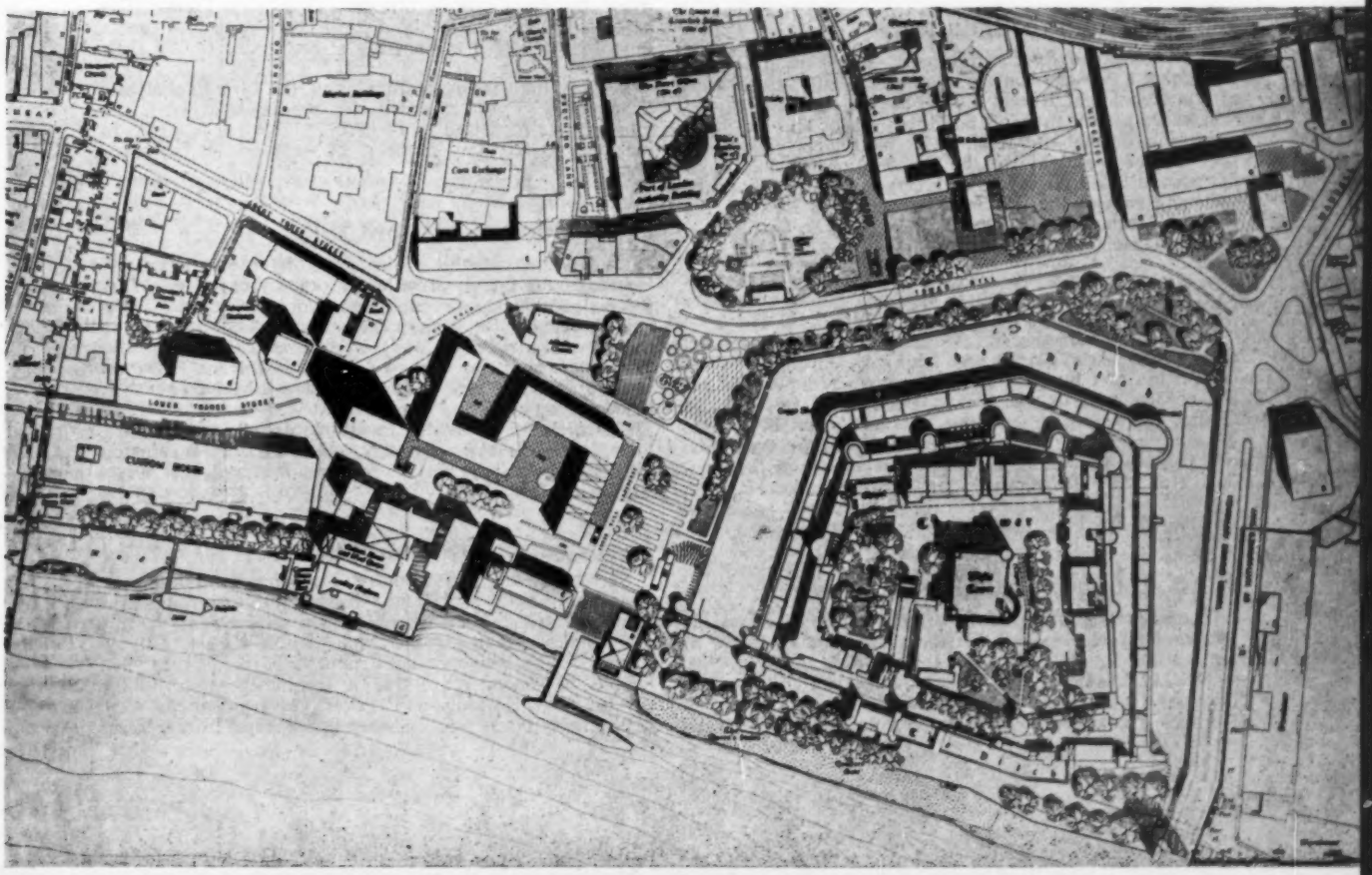
Satisfactory redevelopment of the area depends upon an improvement of the existing road pattern. A new road is proposed from Lower Thames Street, and Tower Hill to be closed to through traffic. The junction with Tower Bridge Approach, however, has not yet been settled. Although this new road will traverse the area, a subway between Trinity Square (where the new Underground station may be sited) and Tower Gardens will enable pedestrians to reach the Tower without crossing streets.

The development envisaged conforms generally to the zoning of the area in the development plan; it is proposed in the current review of the development plan to define the area around the Tower as a precinct for special consideration. The local authorities and other bodies concerned have been consulted informally about proposed redevelopment and the scheme in its present form takes account as far as possible of their views. Further consultations are being held.

Sir Isaac Haywood, leader of the London County Council, concluded the meeting by commenting (perhaps with the Monico upheaval in mind) "the scheme has been submitted to the Royal Fine Art Commission . . . and they are well satisfied with the way in which the scheme is proceeding".

Exhibition of a model with drawings and photographs is to be held at Guildhall in the near future, and will be followed by a similar showing at County Hall.

Plan and model (left) of the proposed Tower Hill redevelopment. Its focal point is the Tower of London, around which are grouped Allhallows Church, the Port of London Authority building, Trinity House, Toc H Headquarters, the Royal Mint and St. Katherine's Dock. The redevelopment of this area has been given special consideration as being of national importance



NEWS

Secretary General of I.F.L.A.

Mr. Derek Lovejoy has been appointed Secretary-General of the International Federation of Landscape Architects. The address of the Secretariat is 1 Park Crescent, Portland Place, London, W.1.

C.o.I.D's New Chief Information Officer

Michael Farr is to become chief information officer of the C.o.I.D. on January 1, 1960, in succession to J. Noël White, who becomes deputy director on the same date. Mr. Farr, who is 35, has been editor of *Design*, the C.o.I.D.'s monthly magazine, since 1952.

N.F.B.T.E. Nominations

The council of the National Federation of Building Trades' Employers has nominated Mr. D. E. Woodbine Parish (London) for election as president of the federation in 1960. Mr. Woodbine Parish was president of the London Master Builders' Association in 1952.

Other nominations by the council are: senior vice-president, Mr. C. R. Setter, J.P. (Bristol); junior vice-presidents, Mr. F. Russon (Birmingham) and Mr. L. J. Holloway (London); hon. treasurer, Mr. J. Ian Robertson (Burton-on-Trent).

The remaining officers of the federation in 1960 are *ex officio*, namely: immediate past-president, Mr. T. V. Prosser (Liverpool), the present president, and Mr. L. A. Walden (Henley-on-Thames), chairman of the National Joint Council for the Building Industry.

The annual general meeting of the federation, at which the council's nominations will be submitted, will be held in London on February 3, 1960.

Information in the Industry

The Associated Special Libraries' Information Bureau is running a one-day course on our old friend Information at the Connaught Rooms on December 9. Two papers will be read in the morning and there will be an inter-panel discussion in the afternoon. Mr. Norman Langley and the Earl of Verulam will be the two chairmen. Well-known users and purveyors of information in the industry will take part in the proceedings, which are open to the public. Tickets from A.S.L.I.B., 3 Belgrave Square, S.W.1, price 30s each, including lunch.

Corb to design Harvard Buildings

Le Corbusier has accepted a commission to design the new Visual Arts Centre for Harvard University. The centre, the first building to be designed by Le Corbusier for construction in the United States, will be built on Quincy Street in Cambridge, between the Fogg Art Museum and the Harvard Faculty Club, on land now occupied by the Graduate School of Arts and Sciences. A gift of $1,500,000 towards the programme for Harvard, by Mr. and Mrs. A. St. V. Carpenter, has made the building of the centre possible.

R.I.B.A. Intermediate Design Prize

The attention of intending competitors is called to the fact that the closing date for the submission of forms of application for the R.I.B.A. Intermediate Design Prize is January 15, 1960. The prize, a certificate and the sum of £100 for the study of contemporary architecture in Europe, is confined to Probationers and elected Students R.I.B.A. and elected Students of Dominion Allied Societies who have passed the R.I.B.A. Intermediate or equivalent examination, or produce certificates from members of the R.I.B.A. to the effect that they have reached the required standard. Students who have passed the R.I.B.A. Final or equivalent examination or who will have passed the R.I.B.A. Final or equivalent examination at the time of the *en loge* competition are not eligible to compete.

Under the arrangements for the competition only one *en loge* competition will be held. This will take place in London and at non-Metropolitan centres on Tuesday, March 15, 1960.

The Victory Scholarship

This competition (for a silver medal and £120) is confined to members of the R.I.B.A. and of the Allied Societies Overseas and elected Students of the R.I.B.A. and of Allied Societies Overseas, who have passed the R.I.B.A. Final or equivalent examination, or who have produced certificates from members of the R.I.B.A. to the effect that they have reached the required standard. With regard to the R.I.B.A. Final or equivalent examination, Students need not have passed the Professional Practice Examination to be taken after 12 months practical experience.

The *en loge* competition for the Victory Scholarship will be held on the same day as that for the R.I.B.A. Intermediate Design Prize, i.e., Tuesday, March 15, 1960. The closing date for the submission of forms of application is January 15, 1960.

Forms of application for admission to the competitions may be obtained at the R.I.B.A., 66 Portland Place, London, W.1.

Gift to the Civil Engineering Scholarship Trust

The Civil Engineering Scholarship Trust will be able to award an increased number of scholarships in civil engineering next year, thanks to a donation of £10,000 made by the Godfrey Mitchell Charitable Trust. The scholarships are worth about £350 per annum and enable boys to study civil engineering at any university of their choice in Britain.

In 1958, the year of its foundation, the Civil Engineering Scholarship Trust awarded 10 scholarships, and the number was increased to 17 in 1959. Now it is hoped to increase to 20 the number of scholarships awarded annually.

Preservation of Malvern Hills

As a result of the confirmation by the Minister of Housing and Local Government, of an order made by the National Parks Commission under the National Parks and Access to the Countryside Act, 1949, about 40 sq miles of countryside in Gloucester, Hereford and Worcester, including the whole of the Malvern Hills, are to be preserved and have the natural beauty of their landscape enhanced. The designated area extends from Knightwick in the north, to Bromsberrow in the south, and from Suckley, Cradley, Coddington, Wellington Heath and Ledbury in the west to Welland and Great Malvern in the east.

Larger Green Belt for Surrey

Surrey Town and Country Planning Committee, in consultation with the county district authorities and area sub-committees, have prepared an amendment to the Development Plan of the Metropolitan Green Belt in Surrey. The move, which states that the Green Belt should be extended, follows a recommendation by the Minister of Housing and Local Government to local planning authorities to consider establishing further areas

of Green Belt in order to check the growth of large built-up areas, to prevent neighbouring towns from merging into one another and to preserve the character of the towns.

County Amenity Awards, 1959

The County Amenity Awards, inaugurated by the Civic Trust this year to encourage owners, architects, engineers, planners, builders and the public to take a greater interest in the appearance of their towns and villages by drawing attention to recent achievements in this field, have been announced by the trust. The class I awards are listed below. Pictures of work will appear in a future issue.

The Scheme

County councils throughout the United Kingdom were invited to co-operate and be responsible for local administration. Seventy county councils adopted the scheme. There were two classes of awards. Class I, for a new building, or group of buildings, in the design of which most regard had been paid to their relationship with their surroundings. Class II, for other types of development making the best contribution to the improvement of the local scene—such as the landscape treatment of a park or open space, the design of a bus shelter, the exterior decoration of a street, a road improvement scheme, or the restoration of an historic building.

The awards take the form of certificates to the successful architects and/or designers, contractors and/or manufacturers. Plaques are to be presented to the owners and/or authorities for display on or near the winning schemes. Certificates of commendation have been made in appropriate cases.

This year the competition has been open to schemes completed during the last three years within the area administered by the county council participating. Next year, it is intended that the scheme will be open to county boroughs on a similar basis, and in the subsequent year to London boroughs.

National Results

The Civic Trust report that entries totalled 669. The type and quality of the entries varied considerably. In one or two counties, assessors reported that many of the entries could almost be taken as examples of what not to do. In other counties, the entries had a bias towards the good architecture of a single building, whereas the trust is more anxious to stimulate interest in the appearance of town or village or street as a whole. The Civic Trust think it might perhaps have been clearer to competitors if the title "Civic Design Award" had been used, rather than "Amenity Award". Purely architectural awards are made in most counties under the scheme for bronze medals, sponsored by the Royal Institute of British Architects, and it was not the intention of the trust merely to institute another such award: it is the whole environment in which people live that is important. It was perhaps for these reasons that only 58 awards were made in Class I and 35 awards in Class II out of a possible of 68 in each case.

Among the awards and commendations made were: six road improvement schemes and four bridges; a new street lighting scheme at Haddington, in East Lothian; part of the hydro-electric scheme at Dolgarrog, carried out by the Central Electricity Generating Board; a scheme for the removal of overhead low-voltage distribution cables at Petersfield. Among the architectural awards were three petrol filling stations, four shops, public lavatories and a number of bus shelters, information kiosks, pavilions and other small structures.

The Civic Trust say that the variety of the awards says much for the interest and importance attached to good development in many parts of the country by public and private authorities alike, and it is to be hoped that this year's competition will encourage more interest, particularly local interests, in all sorts of good development. To this end the trust intends to publish a selection of photographs of winning and commended entries in the near future.

Class I Awards: Architect and Job

England and Wales

S. Vincent Goodman (Wrestlingworth Primary School, Bedfordshire); E. A. Ferriby (Easthampstead IIIA Housing Estate, Bracknell, Berks); Powell & Alport (Bishopsmeadow Service Station, Breconshire); F. B. Pooley (Law Courts, Slough, Bucks); B. Hallwood Lingard and Associates (house at Glan Aethwy, Bangor, Caernarvonshire); T. V. Burrows, A.M.I.C.E. (old people's dwellings, Cambridge); G. R. Bruce (police houses, Aberystwyth, Cardiganshire); W. T. Lloyd (police headquarters, Carmarthenshire); Cheshire: no awards; J. B. Crowther (Martins Bank, Truro, Cornwall); Ryder & Yates (house at Hayton Village, How Mill, Cumberland); G. Parry Davies (Harlequin Puppet Theatre, Rhos-on-Sea, Denbighshire); Antony Lamb (Jerrard Housing Estate, Honiton, Devon); J. O. Tarren (private house, North End, Sedgefield, Durham); J. M. Bion (private housing, Hockley, Essex); H. Anthony Clark and F. C. Roberts and Partners (Maelor R.D.C. Offices, Flintshire); Bromilow, While & Smeeton (pigeon cote and double garage, Blockley, Gloucestershire); Stirling & Margaret Craig (four houses (Rectory Croft), Stevenage, Herts); Peter Russell Gibbs (The Cottage, Walden Road, Huntingdon); P. Lerche-Thomson (surgery and doctor's flat, Wrotham, Kent); Tom Mellor, in collaboration with G. Noel Hill (county secondary school, Carnforth, Lancashire); James L. Heap (new bungalows at Milton Gardens, Oadby, Leicestershire); Parker & Roberts (house, Hall Drive, Canwick, Lincs); T. W. Taylor (civic theatre at Charter Hall, Scunthorpe, Lincolnshire); Clough Williams-Ellis, M.C. (Beudy Newydd, Llanfrothen, Merionethshire); A. Wilkinson (Potter's Bar Estate, Middlesex); J. C. P. West (Town Centre (North) Housing, Cwmbran, Monmouthshire); Tayler & Green (housing, Church Road, Bergh Apton, Norfolk); A. N. Harris (Barton Seagrave Infants' School, Northamptonshire); Marshall & Tweedy (Manor Farm Cottages, Bamburgh, Northumberland); John Dudding & Partners (Carlton Methodist Church, Nottinghamshire); R. B. Turner (houses for forestry workers, Bamford, Peak District National Park); Lavender, Twentyman & Percy (bungalow, Saundersfoot, Pembrokeshire); Warwick & Ellis (houses, Paston, Peterborough); C. H. Simmons (Bishop's Castle High School, Shropshire); Diamond, Hodgkinson & Partners (private houses, Tettenhall, Staffs); Johns, Slater & Haward (Levington Research Station, Suffolk); H. P. Tame (Maybury Estate, Woking, Surrey); J. Catchpole (Ringmer County Secondary School, Sussex); H. S. Howgrave-Graham (The Boulevard, Crawley New Town, Sussex); Douglas J. Oliver & Partners (Stanley House, Rugby School, Wars); John C. Gill (New Yacht Quay, Ambleside, Westmorland); J. L. Morgan Neighbourhood Centre, Walcot, Wilts); L. C. Lomas (Webheath Junior School, Redditch, Worcs); J. H. Napper & Partners and Wallace Hunt (Woldgate County Secondary School, Pocklington, East Riding, Yorks); J. H. Napper & Partners (county modern school, Guisborough, North Riding, Yorks).

Scotland

Alexander Gill (housing, near Newmachar, Aberdeenshire); W. R. Tocher (houses, Dunbeg, N. Oban, Argyll); Ian G. Lindsay & Partners (Smirton Cottages, Glenapp, Ayrshire); Bute: no entries; Hugh Sinclair MacDonald (Couper Square, Thurso, Caithness); Inverness: no entries; F. C. Scott (Calderwood IV Development, East Kilbride New Town, Lanarkshire); Rowand Anderson, Kininmonth & Paul (Outward Bound Moray Sea School, Burghead, Moray and Nairn); Selkirk, Stirling and Sutherland: no entries.

Northern Ireland

Noel E. Campbell (Coleraine Intermediate School, Londonderry).

In Parliament

Commons debate Planning: A Call for Higher Standards

The Commons devoted practically a whole day to a planning debate on Friday (November 20).

A remarkable degree of unanimity between Members on both sides of the House resulted in the passing of a Conservative back-bencher's motion urging the Government to make a fresh appraisal of forthcoming demands and to stimulate through industry, planning authorities, professional bodies and voluntary institutions, higher standards of siting and design within the English landscape.

Opening the debate, the sponsor of the motion, Mr. W. F. Deedes (Cons., Ashford), said: "We can no longer divide this island into the useful and the beautiful. The two have to coincide. This is a tremendous challenge to this generation of engineers, architects and planners". He added: "A war between advance and amenity can achieve very little. They must somehow get on terms. We must strive, a little late but certainly not too late, for a remarriage between modern development and the landscape."

Mr. Deedes expressed the view that it was not the looming of large installations which threatened the skyline of town and country but the litter created by countless little ones.

He asked for a proper inquiry into the possibility of grounding a proportion of the Central Electricity Generating Board's lines as an alternative to using pylons. "I simply do not accept that, because these great undertakings are, as we all know, public benefactors, they have a right or need to obscure the sky with wire", he declared.

Mr. Deedes backed up the Royal Fine Art Commission's concern about the relationship to landscape of the motorways. He said that since 1954 the Commission had pressed that landscape architects should work with engineers from the outset. "That condition applies, not only to motorways, but much more widely. Far too often the architect is called in too late simply to powder the object's nose, when its features have been irreparably damaged", he said.

After pointing out that the Commission had regretted that the Minister's Committee on the Landscape Treatment of Trunk Roads was appointed too late for the first section of M1, he expressed the hope that the Minister of Transport would bear in mind "that better design is not only aesthetically satisfactory but is often safer".

Mr. Deedes considered that Mr. Henry Brooke, the Minister of Housing, must watch private house development. Saying he was a strong believer in home ownership, he said this did not blind him to its faults. "There are examples of it today which are more threatening to the amenities than many council house estates, where at least an architect has had a hand", he said.

Mr. Deedes wanted the Minister to think in terms of a guide to building in the countryside, drafted for the layman as well as for the architect, and sent to building firms as well as rural district councils, which touched not only on the siting of buildings and their design but on things like fences and hedges instead of garden walls.

The Minister should bear in mind that, according to the Royal Institute of British Architects, not more than half of the total volume of privately commissioned new housing was architect designed, he said.

Staines Bridge

The planning of Staines Bridge came in for criticism from Mr. David Price (Cons., Eastleigh). "The planning of Staines Bridge is a shocking story", he said. "It is the design in my view of a greatly overrated architect—Lutyens." He saw no reason why, on grounds of history, there should not be a "good, modern-designed bridge" which took into account the advances in new materials and had a "nice, clean span".

Mr. Price took the view that, as a nation, we must be prepared to pay the economic price of planning, preserving and improving the beauty of our landscape. "That means being prepared to pay adequate compensation to those people who are not allowed to do the sort of developments which their fellow citizens are allowed by virtue of their land being in an area of natural beauty", he said.

Mr. Price warned against being frightened by the new, the daring and the imaginative. He declared that authority managed to outrage feelings by being purely negative and neutral. "How many Members walking up Whitehall have reflected on the new Whitehall offices built after the second world war, but designed before the first world war—massive lumps of dreariness, no doubt symbolic of the anonymity of the Civil Service but, to me, an embodiment of the frustration of the British architect", he wondered.

Dr. Barnett Stross (Lab., Stoke-on-Trent) said the 1947 Town and Country Planning Act should be amended so that the register of planning applications could be inspected before decisions were taken. He went on: "Would it not be true to say that if the interested public had known earlier more about the plan for Piccadilly Circus building it would have been better for us all? Today we have a major agitation on our hands with an embarrassed London County Council. Great pressures are being brought to bear on the Minister and the L.C.C. for reconsideration of the plan."

He said the Piccadilly controversy was an example of how, had there been consultation and publicity, there might have been modification without the present embarrassment.

Monstrosity in Piccadilly Circus

Mr. Jo Grimond, the Liberal leader, expressed the hope that the Government would be tough in using their powers to stop the erection of a monstrosity in Piccadilly Circus.

Mr. Tom Driberg (Lab., Barking) was among a number of M.P.s critical of London buildings and monuments. He said that even the Albert Memorial was not so grotesque, or at any rate not so undistinguished, as dozens of other public memorials and statues in London—"for instance as that chaste and tasteful, but utterly blank and dreary, white memorial to King Geoge V which now disfigures the east end of Westminster Abbey".

He agreed strongly with what Mr. Price had said about that "tearful white elephant in Whitehall". When a design had been in the pipeline for some years it took a major bureaucratic revolution to start from scratch again, choose new architects and have the original design scrapped and reconsidered *ab initio* as he thought should have been done in the case of the building in Whitehall.

Mr. Driberg claimed that private greed had been responsible for much of the damage done. He quoted as an objectionable example the new English Electric building at the corner of the Aldwych and the Strand. He said an admirable design, which won the competition for the new building to replace the Gaiety Theatre had been scrapped and replaced by a "sham-antique monstrosity" which merely "defaces that London street still further".

Intervening in the debate, Mr. John Hay, Joint Parliamentary Secretary to the Minister of Transport, assured the House that architects now worked with the engineers from the outset in connection with motorways.

Replying to the debate, Sir Keith Joseph, Parliamentary Secretary to the Minister of Housing and Local Government, said that the Government must do all it could to ensure the greatest care in the design and siting of all new developments in the countryside. In general, he considered that industrial buildings were by no means landscape offenders. Much industry, large and small, was enlightened, used landscape artists and realized the value of good design.

Regarding the possibility of laying power lines underground, he said research was going on into the problems.

Continued on page 552

"HIGH BUILDINGS" L.C.C. EXHIBITION

A NEW exhibition entitled "High Buildings" was opened by Mr. Richard Edmonds, Chairman of the L.C.C. Town Planning Committee, at the County Hall, last week. With the theme "high buildings are among the most dramatic changes in the London scene", the exhibition includes photographs, drawings and models of buildings which are proposed or are being erected, as well as some which have been completed.

A large amount of useful information is presented in an easily digested form, some of which is summarized in the following paragraphs.

Many people imagine that more accommodation can be got on to a site with a high building. This is not so. The maximum amount of building allowed by the council on any site is directly governed by the area of the site. Thus no matter how high the building, the total amount of accommodation permitted remains the same.

Others Must be Consulted

In considering whether to give planning permission to a high building, the council asks widely for the views of others. The Royal Fine Art Commission, any Ministries concerned and the borough councils are consulted. The council also writes to all owners and occupiers of premises in the neighbourhood who would be adversely affected. In addition, of course, owners and occupiers of properties in the vicinity may have common law rights to light, and rights under covenants which they can exercise for their protection. Under the London Building Acts the owners and lessees of properties within a hundred yards of a proposed building over 100ft have a special right of appeal.

Special Fire Precautions

The design and layout of high buildings must provide for fire-fighting needs and means of escape in case of fire.

Under the London Building Acts the council is able to require arrangements to lessen the danger from fire in all buildings over 100ft and in large buildings over 80ft. This is mainly because such buildings are above the height of a Fire Brigade turntable ladder and fires must be dealt with from within the building from a position with a safe route of access and retreat. Under the Acts the council also specifies safe means of escape.

The Council's Requirements

(1) Fire resistant staircase wells appropriately sited and ventilated. (2) A lift adequate to take firemen and their equipment to the source of the fire. (3) A dry rising main or a wet main booster pump to supply water at upper levels with only short runs of hose. (4) No dead ends or fire traps in upper storeys where occupants or firemen might become cut off from escape routes. (5) Special arrangements in blocks of flats to ensure safe means of escape.

Council publications, Nos. 3795 and 3868 (obtainable from the L.C.C.'s Information Bureau), give details of the usual requirements for fire precautions and means of escape in high buildings.

The Council's High Buildings Policy

It is not possible to lay down rules as to where high buildings should be allowed and of what form and height. The council starts from the premise that in London a high building will be the exception not the rule and no one must expect to be allowed as of right to put up a high building on his site. Each proposal is considered by the council on its merits, bearing in mind the following questions:

Castrol House, Marylebone Road (Architects: Gollins, Melvin, Ward and Partners. General Contractors: Sir Robert McAlpine & Sons, Ltd.), one of the tall buildings among photographs, drawings, and models which illustrate the L.C.C.'s exhibition. Castrol House is 176ft high

(1) Would it spoil good existing development, the skyline of architectural groups or landscapes? (2) Would it have a positive visual or civic significance? (3) Would the site be large enough to permit a base of lower buildings or open space? (4) Would it overshadow adjoining areas and stifle good development there? (5) Would it be better than a lower building and relate satisfactorily to other high buildings nearby? (6) Would its design and materials be of high quality? (7) Would it relate satisfactorily to open spaces and the River Thames? (8) Would its illumination at night detract from London's night scene?

Examples to illustrate these questions are presented in the exhibition. The exhibition is open from November 25 to December 19, in the North Block, County Hall. Weekdays from 9 a.m. to 6 p.m. Saturdays 9 a.m. to 12 noon. Admission free.

Heights of Some Existing Buildings and High Points in London

Height in feet: 1,000, Crystal Palace Television Tower; 443, Hampstead Heath; 425, Highgate Hill; 370, St. Paul's Cathedral; 351, Shell Building, South Bank, when completed; 340, Houses of Parliament, Victoria Tower; 337, Battersea Power Station Chimneys; 320, Houses of Parliament, Clock Tower; 319, Parliament and Bunkers Hills, Hampstead; 318, Bankside Power Station Chimney; 300, St. Mary Abbots, Kensington; 284, Westminster Cathedral; 280, Imperial Institute Tower; 270, St. Pancras Hotel, East Tower; 235, St. Mary-le-Bow; 230, All Saints', St. Marylebone; 220, Central Hall, Westminster; 220, London Friendly Society, Finsbury Square; 210, London University, Senate House; 202, The Monument;

In Parliament—continued from page 550

He said the Minister considered more could be done in country development by the use of landscape architects and believed that they should be consulted at the earliest stage of development and should be included in the team of designers on all large-scale projects. He hoped that all planning authorities would provide themselves with landscape advice.

Sir Keith said he would like to see landscape architecture included in the training of architects, town planners, and other professions concerned with building. (November 20).

Monico Site: M.P.'s Success

Strong and sustained pressure from M.P.s on both sides of the Commons was rewarded this week when Mr. Henry Brooke, Minister of Housing and Local Government, decided to intervene in the dispute over the proposed development of the Monico site on the north side of Piccadilly Circus.

Mr. Brooke first indicated his willingness to step in in an announcement last Friday (November 20) and he amplified his decision when with his Parliamentary Secretary, Sir Keith Joseph, he met an all-party deputation of M.P.s on Tuesday (November 24).

He promised that a public inquiry into the application to develop the Monico site would be held before Christmas. It was later announced from the Ministry of Housing that the inquiry would open at County Hall on December 16.

Further details were being given during an adjournment debate initiated by Mr. Kenneth Robinson (Lab., St. Pancras N.) on Thursday (November 26).

Bricks at Post-war Peak

Lord John Hope said in a written Parliamentary answer that brick production for the first ten months of 1957 amounted to 5,759 million.

Production last month was 655 million, which was equal to the post-war peak reached in October, 1956.

"If this high level of production can be maintained, some 250 million more bricks should be available next year. This, coupled with flexibility in the use of alternative materials, should go far to meet an increase in demand", he said.

Coming Events

Reinforced Concrete Association.

December 7, at 5.45 p.m. Ordinary General Meeting. "The Replanning of Rotterdam", by J. T. Smits, with lantern slides. At 12, Great George Street, Parliament Square, S.W.1.

Royal Institute of British Architects.

December 8, at 6 p.m. "Brazilia", by Professor Sir William Holford, M.A. (L'POOL), F.R.I.B.A., P.P.T.P.I., F.I.L.A. At 66 Portland Place, London, W.1.

Royal Society of Arts.

December 9, at 2.30 p.m. "Modern Trends in Industrial Design", by Sir Gordon Russell, C.B.E., M.C., R.D.I. At John Adam Street, Adelphi, W.C.2.

The Royal Institution of Chartered Surveyors.

December 5, at 10.30 a.m. General Meeting. "Land Drainage and the 1957 Subsidence Act", by S. G. Lee, F.R.I.C.S., F.G.S., M.I.M.E. At the Institution of Advanced Architectural Studies, Micklegate, York.

B.B.C. Network Three "Building Matters".

December 8, at 7 p.m. "Single Stack Plumbing" will be explained by T. J. Griffiths and Peter Whiteley, A.R.I.B.A., will deal with modern roof treatments.

Law and Administration

Radioactivity

The subject of radioactivity and particularly radioactive waste has, in the past, seemed to be a somewnat academic matter which could safely be left to obscure technicians. This is rapidly ceasing to be true as industry increasingly employs radioactive products. The Ministry of Housing and Local Government have been having discussions with a view to establishing responsibility for control of radioactive wastes.

In *Circular 57/59* the Ministry have set out in a memorandum the action which various central Government bodies have in hand on these matters and the allocation of responsibilities among them. Legislation is proposed and a Bill has now been tabled, which will be discussed in due course.

L.C.C. Building Contract

The L.C.C. Standard form of building contract has been under consideration in the House of Lords. The issue in *London County Council v Henry Boot & Sons Ltd.* was a short one. The contract contained a *rise-and-fall clause* which provided that if, while the contract was in operation, the *rates of wages* payable for labour employed on the works should be increased or decreased, then the contract sum should be varied accordingly. The contractors belonged to a scheme arranged by the building trade, whereby they made weekly payments by way of credits for providing holidays with pay for their workmen.

During the operation of the contract increases were made in these payments or credits, and the contractor claimed that the increased payments fell within the *rise and fall clause* as "rates of wages payable".

Lord Simmonds discussed the point at issue in these terms.

"There is, I suppose, no doubt that what the workman gets from the operation of the holiday agreement is a benefit to him. It might perhaps be loosely called part of his remuneration. But to me it seems an essential element in a "wage" that it should be paid to the workman for work done by him, and it is just this element which is taking in the holidays credit.

"It is neither paid by the employer to him nor related to the work which he does for the employer. I would say emphatically that it would not occur to an employer, being asked what wages he paid his workmen, or to a workman, being asked what wages he was paid, to refer in his answer to the holidays credit. They might, indeed, say that in addition to his wage he got the benefit of the holidays credit. But that would no more be a wage than would the benefit of a payment by the employer to a pension, superannuation, or sick fund." Lord Denning also pointed to another distinction which he regarded as important. Referring to the expression "rates of wage" he said:

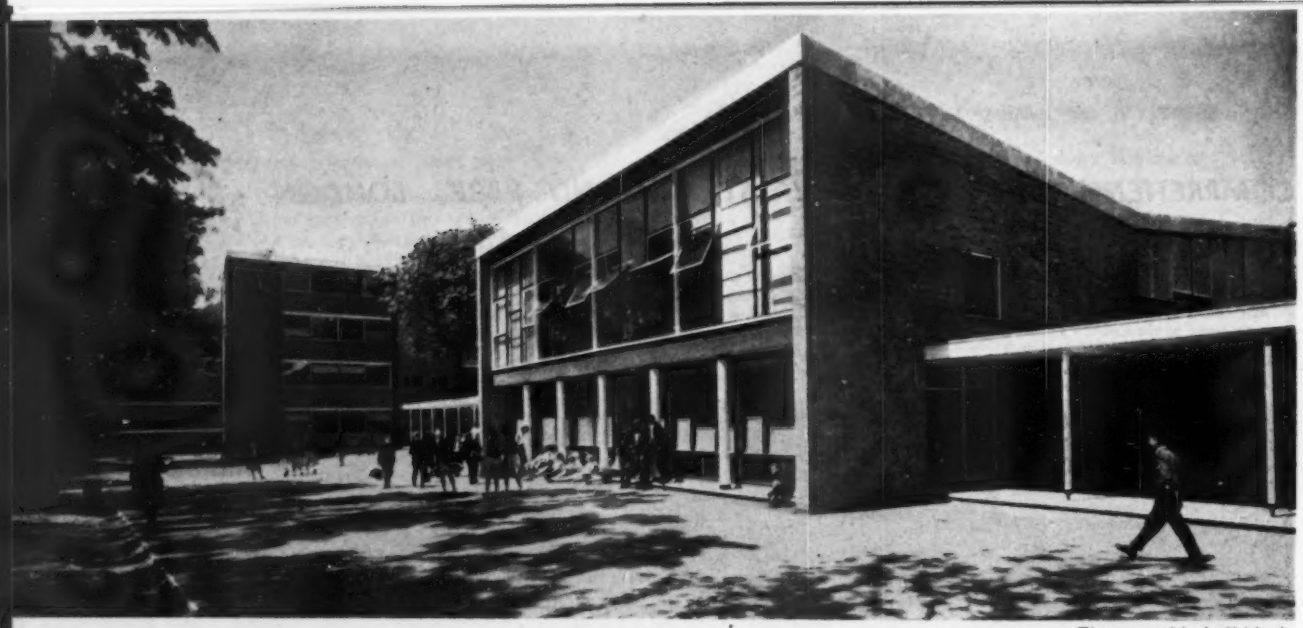
"It does not include such payments as book allowances, travelling allowances or the employee's contribution to an insurance fund or a superannuation fund. The reason is because those are not payments 'for labour'. They are, it is true, payments made under the contract of service—but they are not payments for work done by him. The phrase 'labour employed' in the 'clause does not, to my mind, mean 'labourers employed'. It means 'labour done by workmen employed' in the execution of the works."

All their Lordships agreed, and accordingly the judgment of the Court of Appeal was reversed and judgment given for the L.C.C.

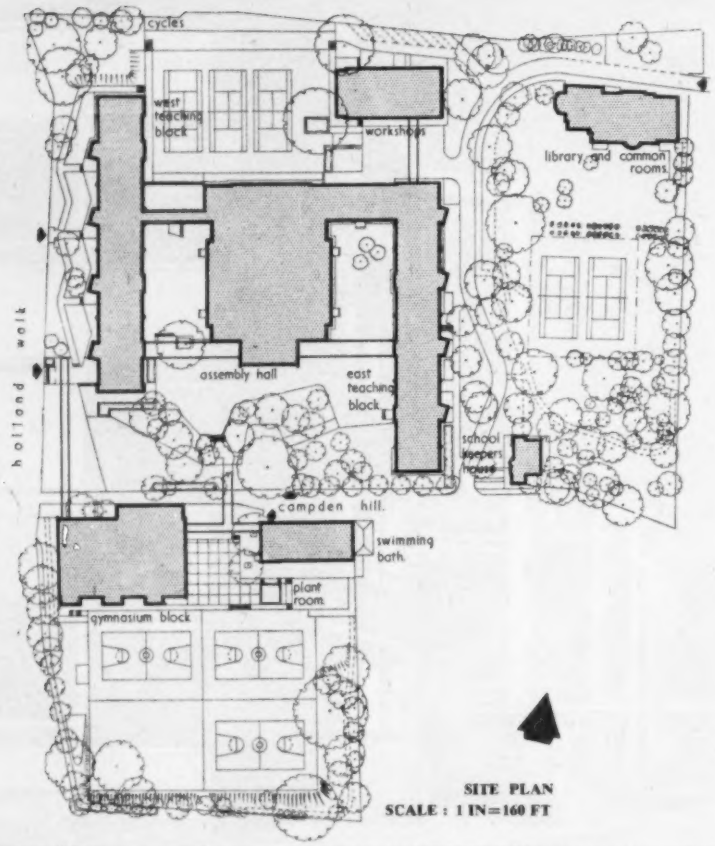
COMPREHENSIVE HIGH SCHOOL AT HOLLAND PARK, LONDON

Architect: HUBERT BENNETT, Architect to the L.C.C. in succession to Professor Sir LESLIE MARTIN. Deputy Architect to the Council: F. G. WEST. Schools Architect: MICHAEL POWELL. Assistant Schools Architect: F. F. HORSFALL. Architect-in-charge: D. ROGERS STARK. Assistant Architects: A. W. STRUTT, G. D. MALIN and M. E. KIDALL. Heating and Electrical Installations were designed by the Council's Chief Engineer, J. RAWLINSON. School grounds were laid out under the direction of L. A. HUDDART, Chief Officer of the Parks Department.

Holland Park School was designed to accommodate over 2,000 boys and girls and has been constructed on one of the most attractive sites in London. Many of the old trees are retained and more planted to give a well-wooded environment for the buildings. The west teaching block, with entrance from Holland Walk, is illustrated above



The assembly hall block



SITE PLAN
SCALE : 1 IN=160 FT

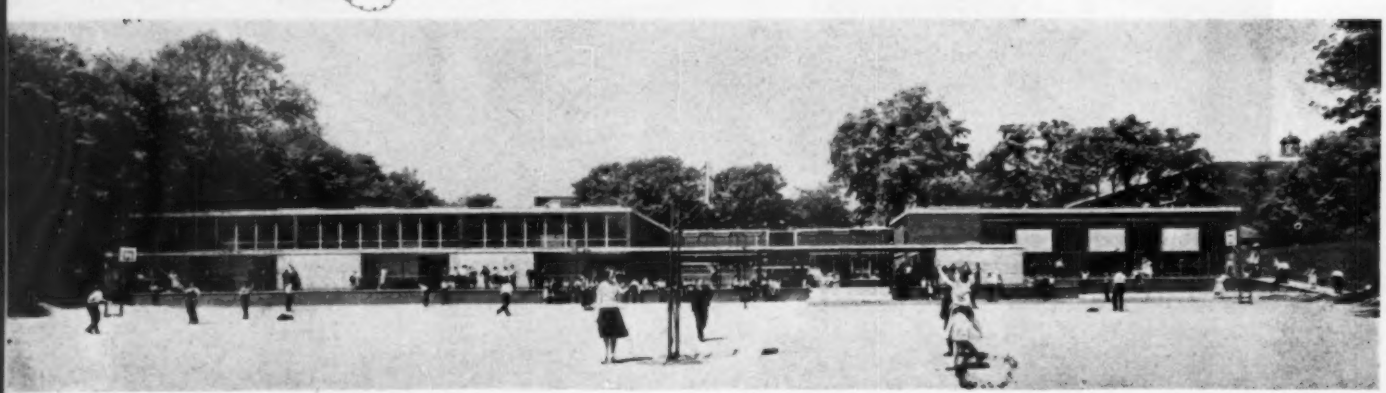
IN planning the new Holland Park school, care has been taken to preserve the character and amenities of the district by limiting the height of the new buildings to four storeys, by retaining Thorpe Lodge and the old white stuccoed Gate Cottage in the school site and by planting additional screens of trees where necessary to break up the layout. A collegiate atmosphere has been achieved by the formation of courtyards and by the use of groups of fine trees which screen portions of the layout.

The school grounds appear large, partly because of the nearness of the park, with the sight of trees continuing far to the west and partly because of the varying treatment of the layout. The gardens of Thorpe Lodge have been left as they were except for the addition of some tennis courts and in contrast there are the open play spaces, mainly surrounded by very fine trees and the specially designed promenading area among the trees between the school building to the north and the public footpath.

Accommodation

Two teaching blocks, each of four storeys and containing the administra-

SCHOOL AT HOLLAND PARK



The staircase elements of the building project forward from the main building line to give a sawtooth outline to the teaching blocks (see left). The main entrance hall, above, is in the east block

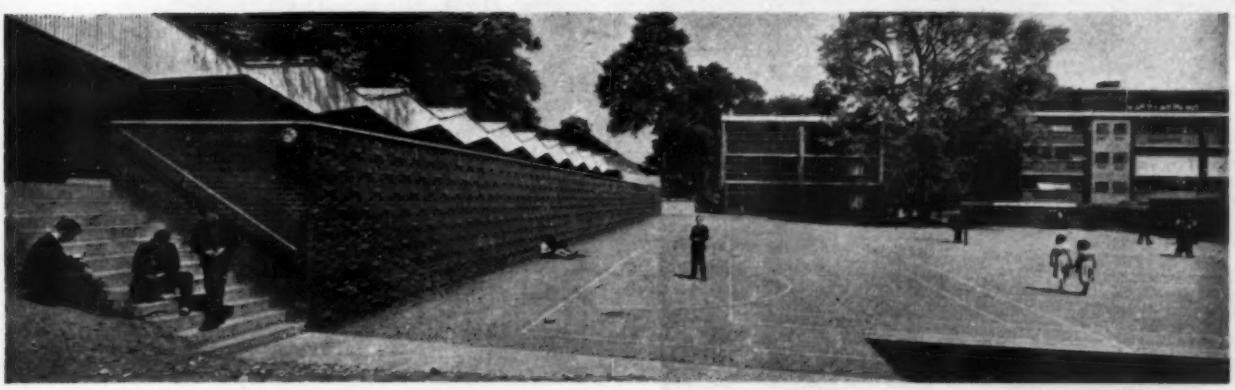
tive quarters and ordinary or specialist classrooms, have been planned facing east and west so that all rooms receive the sun during some part of the day. Between these two blocks, and connected by covered ways, is the main assembly hall with its four minor halls and the main kitchen. To the north is the three-storey workshop block with access to the east teaching block. Further still to the north-east lies Thorpe Lodge, formerly the residence of the late Lord Montagu Norman, now being used as the school library and sixth-form classrooms.

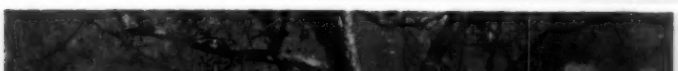
The site is completely divided to the south by Campden Hill, which at this point becomes a public footpath. The five gymnasia, the swimming bath and two of the play pitches are situated to the south of it. The footpath has been bridged by two raised walkways, the one to the west is enclosed and links the corresponding teaching block with the gallery of the gymnasia and continues east to serve the first floor of the swimming bath.

A special feature of the main hall is that it has been designed for general assembly, music, drama, Swedish drill, ballroom dancing, etc., and is

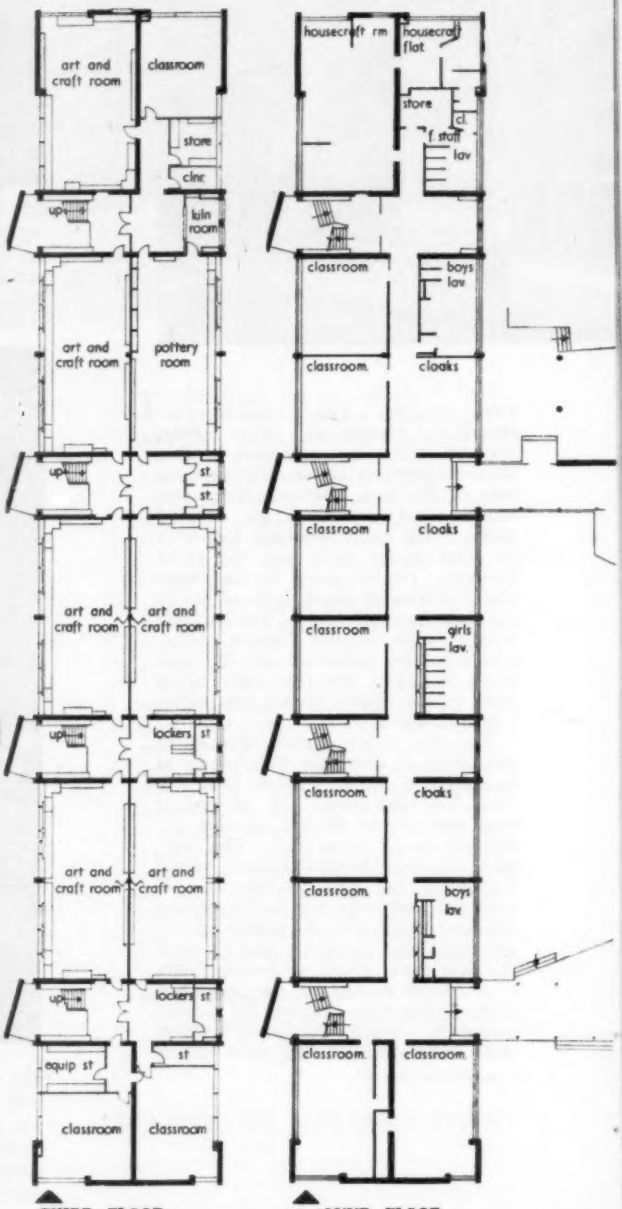
Continued on page 559

The site is divided by a public footpath, and this is spanned with two raised walkways. One of these is seen above (see site plan on facing page). Two of the play areas are illustrated: below, looking from one end of the cycle shelter towards the workshops; facing page, a shot from the extreme south of the site with gymnasia and swimming pool

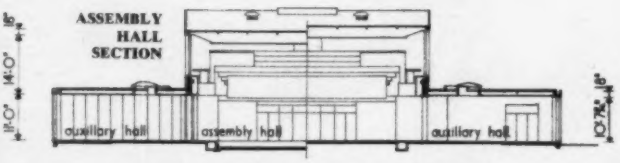


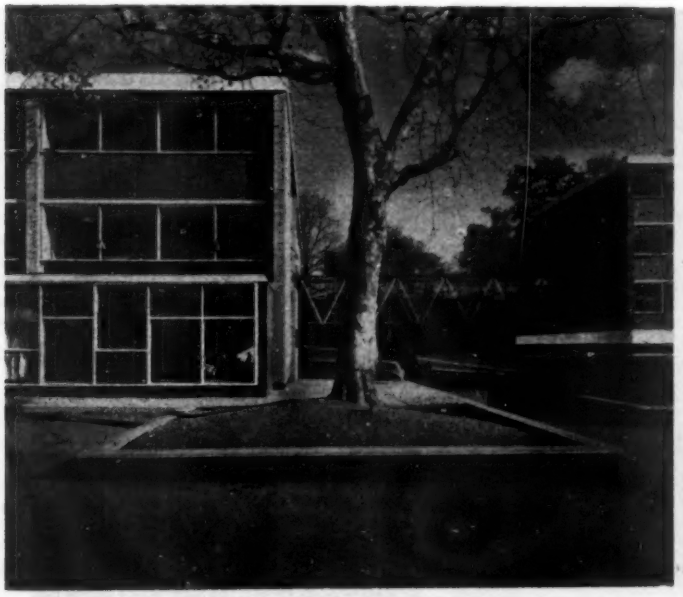


SCHOOL AT HOLLAND PARK

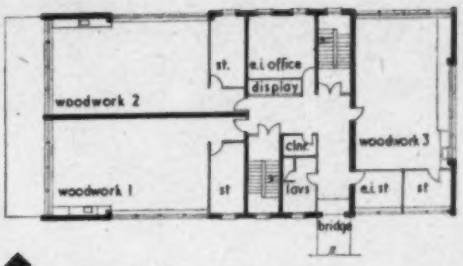


Four interior views of classrooms and workrooms. 1. A commerce room. 2. Chemistry laboratory. 3. Art room. 4. Geography room. The teaching blocks are orientated so that all rooms have sunshine during some part of the day

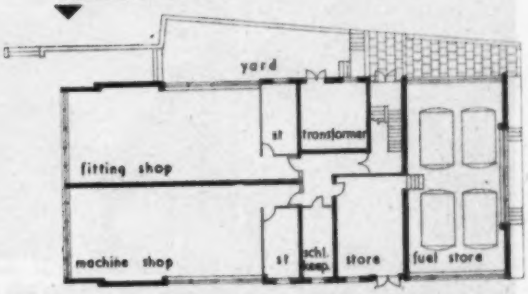




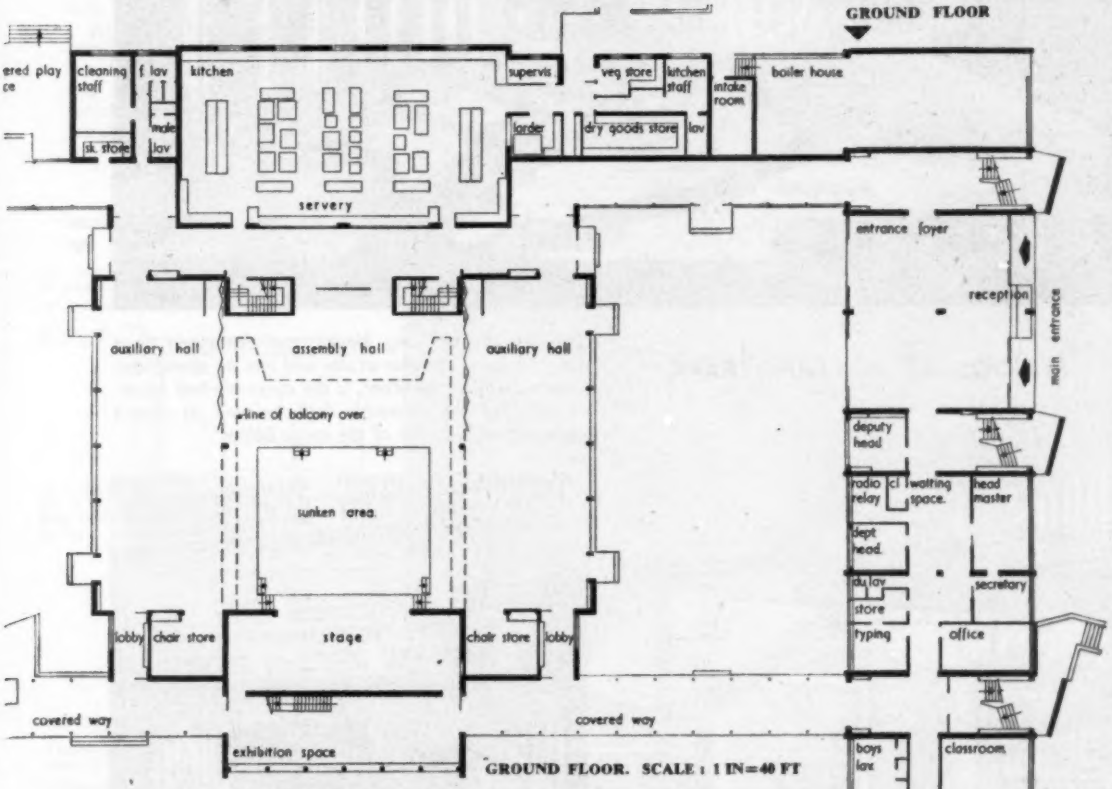
The junction between workshop and teaching block



WORKSHOPS PLANS

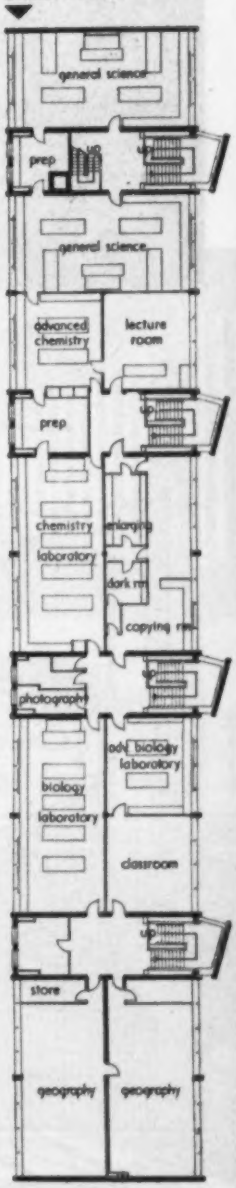


GROUND FLOOR



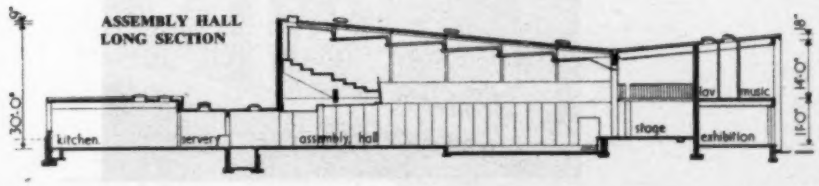
GROUND FLOOR. SCALE : 1 IN=40 FT

THIRD FLOOR



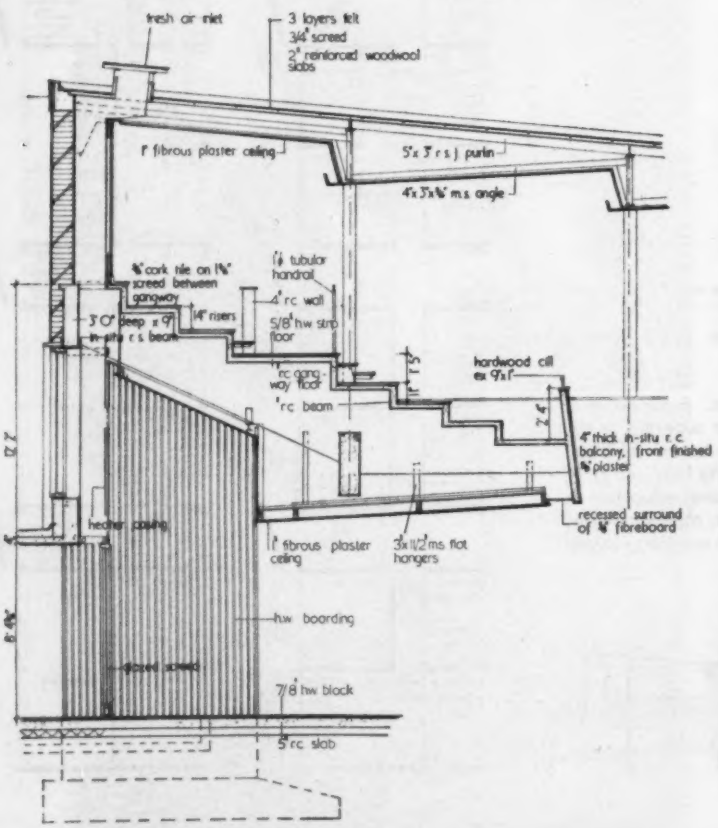
On entering the school a pupil joins one of eight houses. Each house is in the charge of a house-master who is responsible for supervising the welfare, conduct and progress of the boys and girls in the house. Assisting them are tutors who have in their care groups of up to thirty boys and girls. During the first three years of the school course a general education is given. In the fourth year, after consultation with parents, the pupils start the special courses for which they are most suited. There are many school clubs and societies covering a wide variety of interests

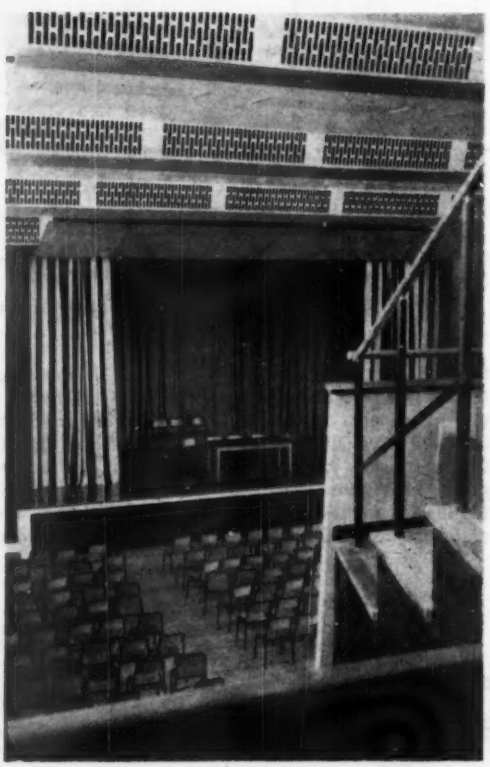
ASSEMBLY HALL LONG SECTION



SCHOOL AT HOLLAND PARK

Between the teaching blocks, and connected by a fully enclosed corridor at one end and an open-sided covered way at the other, is the assembly hall block. A detail of the assembly hall balcony is shown together with a view of the stage below





Continued from page 555

directly connected with the kitchen for dining purposes. By taking advantage of the deep beams spanning the main hall, an interesting ceiling profile has been achieved which has been designed to incorporate a ventilating system and to help acoustically the various uses to which the hall will be put.

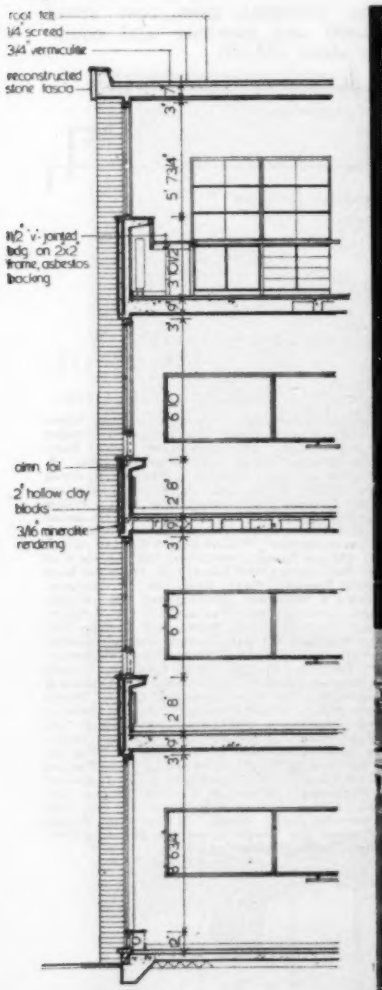
Construction

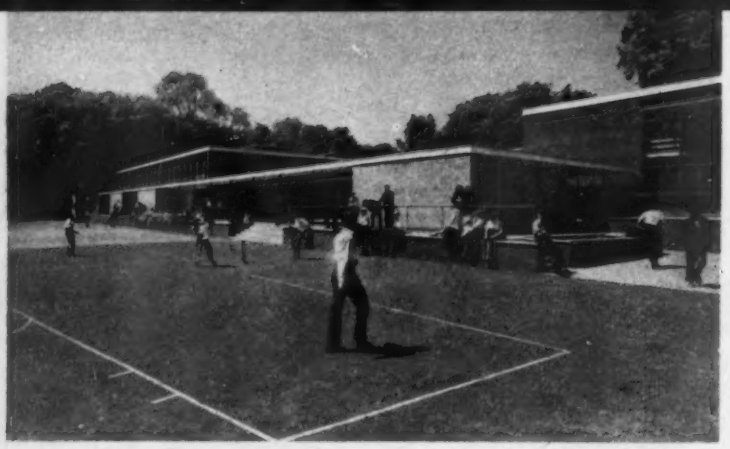
Teaching blocks: 13½in calculated load-bearing cross-wall construction (the lower two storeys being in semi-engineering brickwork) with *in situ* hollow pot reinforced concrete floors. External walls consist of an edge beam rendered externally with "Glamorock", and softwood window frames with metal inserts for opening lights. Services occur in a main under-floor duct at ground level and generally rise in staircase ducts to the various rooms. Heating is by radiators or warm-air blowers.

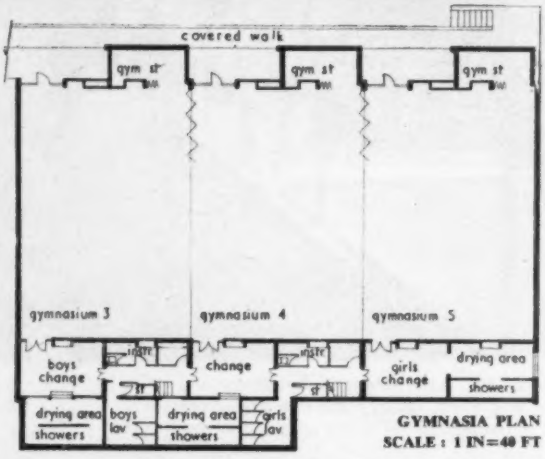
Assembly hall: structure is mainly reinforced concrete with some clad-bearing brickwork up to the level of the clerestory cill, above which a series of light steel columns and welded lattice girders with woodwool roofing slabs over. Balcony structure

Above, the link between workshops and teaching block. Below, the link seen from cycle shelters to the north of the site

DETAIL THROUGH TEACHING BLOCK







GYMNASIA PLAN
SCALE : 1 IN=40 FT

Exterior and interior views of gymnasium and swimming pool. Balconies are provided for teaching and viewing purposes.

consists of a cantilever which is partly supported on and partly counter-weighed by the walls enclosing the staircases. Heating is by warm-air blowers and some floor heating.

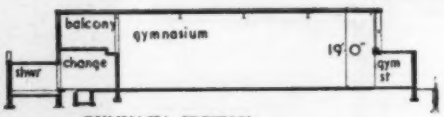
Workshop block: structure and arrangement of services are similar to those of the teaching blocks. The ledge is in steel and is fully glazed.

Gymnasia: load-bearing end walls with plated stanchions and beams, castellated beams spanning each gymnasium. Woodwool slab take the roof finish.

Swimming bath: the structure of the bath itself is in vibrated reinforced concrete with two lateral expansion joints. It is not tanked. The structure of the building consists of a laminated hardwood frame, with roof sheeting in asbestos-cement cavity decking. The south-facing wall is a completely glazed frame with doors leading to a terrace. Heating consists of high-level warm-air heaters drawing in fresh air on one side; there is also an underfloor ducted warm-air system to reduce condensation on the south window and some radiators. Bath water is filtered and chlorinated in the plant-room adjacent to the swimming bath; the heat for the bath water is being provided by the main school boilers.

Cost

The buildings have cost about £680,000 and furniture and equipment about £58,500.



GYMNASIA SECTION

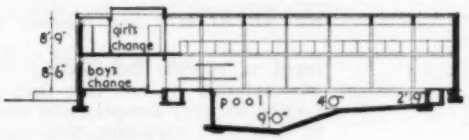
General Contractors:

SPEIRS LTD.

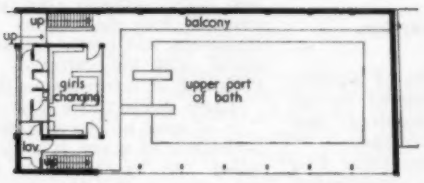
Sub-contractors and suppliers:

Afzelia Flooring, Hard Rock Maple, Burma Teak: Vigers Bros. Ltd. *Asphalt Laying:* The Limmer & Trinidad Lake Asphalt Co. *Chromium-plated Curtain Rails:* Stitsons Sanitary Fittings Ltd. *Cloakroom Units:* B. Finch & Co. Ltd. *Cork Tiles:* E. J. Elgood Ltd. *Diving Boards:* Gillian & Co. Ltd. *Electrical Installations:* Read & Partners Ltd. *Espagnolette Bolts:* Wilkes Berger Engineering Co. Ltd. *Filtration and Chlorination Plant for Swimming Bath:* United Filters & Engineering Ltd. *Gas Incinerator:* William Sugg & Co. Ltd. *Glasshouse:* Duncan Tucker (Tottenham) Ltd. *Glazed Wall Tiling:* Parkinsons (Wall Tiling) Ltd. *Hardwood Block and Strip Flooring:* Vigers Bros. Ltd. *Ironmongery:* Lockerbie & Wilkinson (Birmingham) Ltd. *Kitchen Fittings:* Canal Joinery & Moulding Co. Ltd. *L.P.H.W. Heating, Ventilation, Hot Water, and Gas Services:* Norris Warming Co. Ltd. *Lean-to Glazing:* Crittall Manufacturing Co. Ltd. *Lightning Protective System:* J. W. Gray & Son Ltd. *Metal Windows:* Crittall Manufacturing Co. Ltd. *Perspex Lettering:* Drakard & Humble Ltd. *Porous Pot Damp-proof Course:* British Knapen Ltd. *Sanitary Fittings:* Stitsons Sanitary Fittings Ltd. *Sliding and Folding Doors:* Esavian Ltd. *Spiral Staircase:* Carron Company Foundry Department. *Steel Kitchen Hood:* Crittall Manufacturing Co. Ltd. *Steelwork for Bridges:* The Structural Engineering Co. *Steel Storage Tanks:* Braithwaite & Co. *Tarpaving:* The Wainwright Paving & Contracting Co. Ltd. *Teleflex Gear:* Crittall Manufacturing Co. Ltd. *Terrazzo Partitions:* Mosaic & Terrazzo Precast Co. (Staines) Ltd. *Timber Structure to Swimming Bath:* Rainham Timber Engineering Co. Ltd.

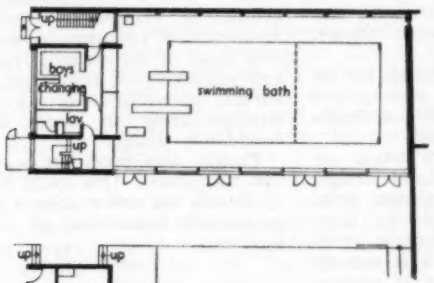
SCHOOL AT HOLLAND PARK

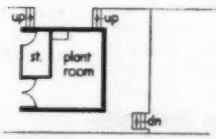


SECTION



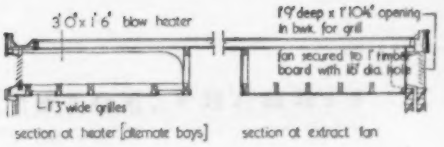
UPPER FLOOR



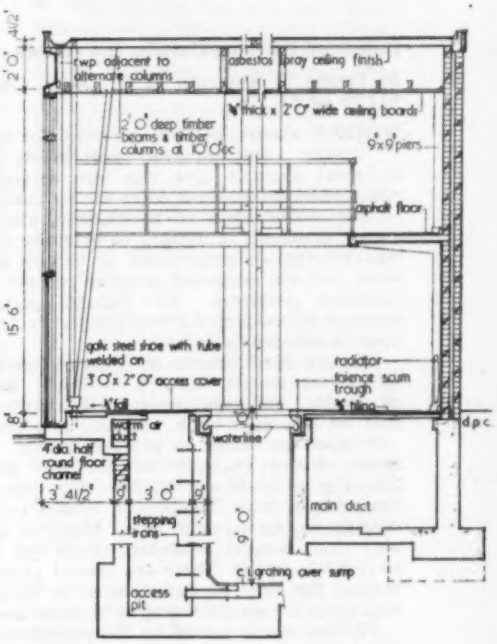


GROUND FLOOR
SCALE : 1 IN=40 FT

Below, high-level walk-ways link gymnasium and swimming pool with the rest of the school



section at heater (alternate bays) section at extract fan



DETAIL CROSS SECTION
SCALE : 1 IN=8 FT

LIBRARY NOTES

Industrial Building Details, 2nd edition

by Duane F. Roycraft, F. W. Dodge Corporation. $12·75 or £4 10s.

THERE always seems to be room for books of building details. The excellent detail sheets prepared by the technical journals now run into several hundreds and when re-issued in book form are in much demand.

This would seem to be because, although there is a more "synthetic" approach to detailing now, nevertheless we are often in some doubt as to how things will really work and are interested in other people's solutions to our common problems. To students particularly, in the absence of examples to contemporary textbooks' theory, these books are useful.

Modern developments in America interest us all but we sometimes wonder how it is done. Slick photographs of "svelte" buildings appear so frequently without details that we receive a book with this title hopefully.

It does not come up to expectations. The details are rather dreary examples of not very intelligent design. Sheeting to roofs and walls of factories, flashings, staircase details, etc. Much of it relates to steelwork, sheet casings, fascias and the like. Many of course are probably manufacturers' standard detail but there is nothing to indicate which. There are several examples of curtain-walling but they do not seem to be very good examples and there are no photographs to show how they look.

Perhaps one is put off by the presentation, which is in a peculiarly crude style compared with the current British practice of using well-graded lines without crosing at the corners, and simple stencil lettering or a freehand equivalent free from mannerisms. The drawings here are curiously reminiscent of a style popular in 1910. The curly arrows particularly are distressing and several drawings are good examples of how these tend to confuse rather than clarify.

It is sad that such a well-filled book on such an important aspect of out work is not likely to be useful to us in Britain.

DENZIL NIELD.

Practical Problems in Soil Mechanics, 3rd edition

by H. R. Reynolds and P. Protopapadakis. Crosby Lockwood & Son Ltd. 21s.

THE fact that this book is now in its third edition is some indication of its value, and both the publishers and the authors must be congratulated on having produced such an excellent work at such a modest price.

The term *soil mechanics* was coined in the U.S.A. and a landmark in its development was reached in 1936, when several valuable papers were submitted to the First International Conference on Soil Mechanics and Foundation Engineering, held at Harvard University. Professor Terzaghi, who deserves to be called the father of soil mechanics, reviewed this very important subject in his James Forest Lecture to the Institution of Civil Engineers in 1939. Today the study of soils has advanced to an organized engineering science, and much has been achieved in solving many baffling problems.

This book has 92 illustrations, all clear and to the point. Both printing and layout are excellent, and every engineer should study this volume carefully. It will also be of considerable value to architects, many of whom do not appreciate the importance of a sound and economically designed foundation.

The present reviewer is somewhat disappointed that the authors have not dealt more fully with the effects of vibrations on soils. They state that experiments in this field have been largely confined to simple motion in a vertical direction, but " . . . that the more complicated types of motion can occur." How right they are is demonstrated by the fact that up to 1939 the British forging industry complacently accepted the fact that some of their most expensive plant was out of commission for 85 per cent of its working time! It required the impact of a second world war to force upon the Government and upon industry, the imperative need to undertake research into this matter. The basic reasons for these disastrous and costly foundation failures are now understood, and the value of this book would be greatly enhanced if reference to these were included.

These authors are also correct when they state that ". . . it must not be assumed that the value of the natural frequency of a soil is a clearly defined physical property which can be related to its bearing capacity on other characteristics." This factor depends upon many local conditions, but the most important point to be borne in mind is that a complete static and dynamic soil survey should be undertaken over any proposed site. The frequency of vibration of any machinery must always be well clear of the natural frequency of the soil, to avoid any possibility of resonance. Today there is no excuse for any industrial concern to inflict structural and nervous damage upon an entire district through failure of foundation design.

Finally, this book has a most useful bibliography on soil mechanics. This could, however, be usefully extended to include the newer science of Soil Dynamics, faulty and incomplete knowledge of which has led to so many failures.

ROLT HAMMOND.

Umbau der Städte

by W. Seidensticker. Vulkan-Verlag Dr. Classen, Essen. DM26.

THIS book deals with urban reconstruction and its references to the work of several continental planners are particularly interesting, e.g., the research carried out by Prof. Leibrand, of Zürich. His analysis of a number of towns shows that their population has increased by 250 per cent during the last 50 years, whilst the total area of roads has only been extended by 175 per cent. This increase in area is predominantly concentrated in the suburbs, whilst in the centre it amounts to only 10 per cent. Because parking space now occupies 30 to 35 per cent of the inner urban roads, their actual traffic load has increased by 250 to 300 per cent since the beginning of this century.

Dr. Seidensticker outlines a new town structure with its central area mainly reserved for pedestrians and enclosed by a ring road and car parks. Five to six residential districts, each consisting of several neighbourhoods and separate industrial zones, are grouped radially around the centre. Level road crossings have been entirely avoided and T-junctions are used everywhere, the minor roads leading at an obtuse angle into the major roads.

The traffic system of each district rather resembles a fern leaf, its stem being an arterial road which leads towards the centre. The urban districts are separated by green wedges which almost penetrate to the central area. Within close proximity of the centre an inter-city motorway traverses the town.

The author is somewhat vague when he deals with the possible realization of his proposals. He quotes the replanning of Fort Worth and Rotterdam, some of the very few instances of enlightened reconstruction; and he refers to the Town and Country Planning Act of 1947, perhaps not realizing that its most daring and effective provisions have been largely discarded. In spite of this shortcoming the book offers many sensible suggestions, it is extensively and clearly illustrated with diagrams and its many references to other German publications should facilitate more detailed studies. It is a pity that the language barrier makes publications of this kind relatively inaccessible to British planners.

R. ROSNER.

Industrial Notes

● The Association of Supervising Electrical Engineers has just published their programme for 1959-60. It is in booklet form and contains details of all A.S.E.E. national events as well as particulars of a large number of branch lectures and social occasions. Copies can be obtained free of charge from the general secretary of the association at 23 Bloomsbury Square, London, W.C.1.

● The Gliksten Group has produced a new colour film which shows the manufacturing process and uses in the building and furniture industries of Glinex structural and insulation panels. It was recently shown to some 80 guests at the Grand Hotel, Birmingham, in conjunction with an exhibition of other Gliksten products.

● Protective covers, made from Nuralite, have been used for protecting rolled steel girders against corrosion caused by fish manure at the Humber Fishing and Fish Manure Co's plant at Hull, Yorks.

● Federated Foundries Ltd. have formed a Sofono Electrical Division to handle the electrical appliances which have been added to the Sofono range. Basically the new range consists of convector heaters, combined reflector/convector heaters, reflector fires, and reflector fires with adjustable angle reflectors. All types are available in both 1kW and 2kW sizes.

● Management Selection Ltd., advisers to industry on the appointment of senior management and technical staff, have opened an office at 212 West Regent Street, Glasgow. Mr. J. G. Smith, M.A., is to be the manager and Sir David Anderson, who is retiring from his position as director of the Royal College of Science and Technology, Glasgow, at the end of this year, has been retained as Scottish adviser.

● Hargreaves Quarries Ltd., a subsidiary of Hargreaves (Leeds) Ltd., has acquired all the issued capital of John W. Pearson & Co. Ltd., of Middlesbrough, and its subsidiaries, A. W. F. Ltd. and Shotton Bricks Ltd.

● The British Granite & Whinstone Federation has produced the following technical pamphlets: 1, A List of Members of the Federation; 2, General Information; 3, Wetmix (Second Edition); 4, Leanmix (Second Edition); 5, Close-textured Bitumen Macadam; 6, Dense Tar Surfacing; 7, Pre-coated Chippings for Surface Dressing. These pamphlets are obtainable without cost from the Federation's offices at 55-58 Pall Mall, St. James's, London, S.W.1.

● Mr. G. B. Elphicke has been appointed deputy chairman and managing director of the Fawcett Construction Co. Ltd., whilst Mr. G. Ball, A.M.I.C.E., becomes the new London manager.

● The Nuralite Co. Ltd. have made new appointments concerning Messrs. S. N. Brandon, K. R. Warner, and S. W. Titheridge. Respectively, they now become, Eastern Region manager, Eastern Region technical representative and Southern Region technical representative.

● Atlas Copco (Great Britain) Ltd. have appointed Mr. John Harrison as managing director of the company in place of Mr. J. C. Greig, who has resigned.

● The Rawlplug Co. Ltd. have declared an interim dividend of 10 per cent, less tax, on their Ordinary share capital in respect of the year ending December 31, 1959.

● The title of Sussex Cement & Concrete Products Co., manufacturers of tiles and bricks, has been changed to Washington Concrete Products Ltd. Mr. F. C. R. Simms has joined the Washington board.

● John Laing & Son Ltd. have formed a new company known as Lytag Ltd. This company will produce lightweight aggregate from pulverized fuel ash at a factory adjoining Northfleet, Kent, power station. The headquarters of the company are located at Manor Way, Boreham Wood, Herts.

● Mr. Barton Frank Higgs, B.SC., has been appointed managing director of Myton Ltd., a member of the Taylor Woodrow Group of building and civil engineering companies.

● Geo. J. Smith & Co. Ltd., practitioners in advertising, have moved to new premises at 261-265 Gray's Inn Road, London, W.C.1 (telephone: Terminus 9611).

● The Educational Supply Association Ltd. have awarded the contract for a new factory and office building, at Harlow New Town, to Fromson Construction Co. of Canada, of Byfleet, Surrey. The building is a standard 160ft clear span Fromson arch building of 50,000 sq ft area, with single-storey offices. Cost will be £90,000.

● The Workington office of the A.E.I. Lamp and Lighting Co. Ltd. has moved to a new address at Westminster Bank Chambers, Oxford Street, Workington, Cumberland (telephone: Workington 93).

● The Yorkshire Brick Co. Ltd. show a net profit for the year ended March 31, 1959, of £76,663, compared with the previous year's result of £55,598. The final ordinary dividend is 12½ per cent.

An artist's impression of Broxbourne Station as it will appear on completion of the recently announced remodelling scheme. Work will include the re-siting and complete reconstruction of the station. It forms part of the plan for the electrification of the line from Liverpool Street to Bishop's Stortford and is due for completion next year. Designers: A. K. Terris, B.Sc., and H. H. Powell, B.Arch., F.R.I.B.A.

NEW PRODUCTS

In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer

New Formica Design

A new design has been added to the pattern range of Formica decorative laminate veneers. The newcomer, known as Sequin, consists of star-shaped fleckings of gold against a background of any one of the following colours: red, blue, white, yellow, black and mushroom. Sequin would appear to be suitable for use with Vanitory units, as bedheads and for many other furniture applications besides wall and door panelling. Price: 4s per sq ft, in complete sheet sizes of 10ft by 4ft, 9ft by 4ft and 8ft by 4ft; when cut to size, it will cost 5s 9d per sq ft.

Formica Ltd., De la Rue House, 84/86 Regent Street, London, W.1. Regent 2901.
Readers' Information Service, Ref. A. Date 2/12/59.

★

New Washer/Spin Dryer (B)

The new Supertwin combined washer and spin dryer is the latest addition to the Servis range of domestic appliances. The machine incorporates a heat-resistant plastic agitator which is mounted in a smooth, blue, vitreous-enamelled tub and is capable of washing 6lb of clothes in 8 gal of water in conjunction with a 2¼kW immersion heater which boils the water. The spinner fills up completely with water in order to soak the clothes in clean rinsing water before spinning takes place. The lid of the spinner is fitted with a safety catch which stops the spinner revolving when the lid is raised. All controls are located on a recessed front panel and include switches for automatic wash timer, heater, motor and pump. There is a twin bore emptying hose which returns soapy water to the wash tub as well as rinsing water to the sink. With this dual hose the tub can be emptied at the same time as the last rinse water is pumped from the spinner. A Warerite plastic table top with metal frame is available as an extra and, when the washer is in use, this top can be hooked on to it in a convenient position. Overall dimensions: 33in high by 31½in wide by 20in deep. Price (including tax): 79gn.

Wilkins & Mitchell Ltd., Darlaston, S. Staffs. James Bridge 3111.
Readers' Information Service, Ref. B. Date 2/12/59.

B

★

New Oil-fired Boilers (C)

The latest Janitor oil-fired domestic boiler is the Type V, which has an output rating of 40,000 B.Th.U./hr. It has been primarily designed for use in the smaller three-bedroomed house. The new boiler operates by the vaporizing system of combustion and should be fed from an oil-storage tank situated outside the house. It is claimed to be completely silent as neither fans nor a motor are built into the boiler. It is also stated to be fumeless and therefore to be clean in operation at all times. Automatic control is provided through a Teddington control box unit which maintains the oil-flow at the level required, and is also fitted with safety features to prevent the vaporizing chamber from flooding. When the preset boiler temperature is reached, the thermostat reacts on the control box and a pilot flame only is maintained until heat is again required, when the control will again start operating to its setting. An efficient chimney should be provided to remove the products of combustion and a draught diverter is incorporated inside the boiler casing. Finish: black, white, silver, blue or green hammer, deep or light cream, summer or French blue, yellow, poppy red, apple green, rose pink or dove grey. Overall dimensions: 33¼in high by 23¼in deep by 15½in wide. Price: £98.

Janitor Boilers Ltd., Camberley, Surrey.
Readers' Information Service, Ref. C. Date 2/12/59.

★

New Locking Method for Lightweigt Concrete Blocks (D)

A new method of building houses of light concrete blocks without using mortar or other binding media of liquid type has been introduced in Sweden. Factory-made building blocks are linked by means of small circular nylon disks which are placed in ¼in deep lengthwise grooves in the horizontal surfaces of the blocks. It is claimed that this method gives the walls a structural strength that is 60 per cent stronger than when building with mortar joints. It is claimed also that once the first layer of elements has been put in place on a base of cement mortar, the entire building adjusts itself automatically to its horizontal and vertical outlines. The disks are 1½in in diameter by ¼in thick and only three are required to a bond. Corner bonds are effected by means of extra vertical grooves, so that the disk locks three elements at a time. Partition walls are made of thinner elements joined together in the same manner, except that the locking disks in this case are square-shaped, as it has been found preferable to use a slightly larger contact surface for the lighter elements. Amongst the advan-

D

C

tages claimed for this new system are that partitions can be easily rearranged; it is possible to take the house apart and move it to another location; building can be carried on even during the most severe winter temperatures.

Ytong Co., Gorwellngagan 12, *Stockholm, K. Sweden.*

Readers' Information Service, Ref. D. Date 2/12/59.

★

Sealcoat Hardboard in Door Sizes

Sealcoat hardboard is now available in full door sizes and the manufacturers have augmented their production to include popular sizes in quantity. The hardboard is "process sealed" so that no primer or sealer is required before painting commences. If the edge of the hardboard panel is not to be covered, however, it will be necessary to apply a sealer before painting the edge and if nailing is preferred to adhesives, the nail hole filler will also have to be treated with a sealer before painting starts. The full door sizes in which Celotex Sealcoat Hardboard is now available are 6ft 6in by 2ft by 6in, 6ft 8in by 2ft 8in and 7ft by 3ft.

*Celotex Ltd., North Circular Road, Stonebridge Park, London, N.W.*10. *Elgar* 5717.

Readers' Information Service, Ref. E. Date 2/12/59.

★

New Reardozer (F)

The new Sapper reardozer has been designed by this company with a view to filling a gap in the range of equipment available for Massey-Ferguson 35 and 65 tractors. The implement is carried by the normal three-point linkage and has a reversing mechanism which enables it to respond to thrust in the same way as the Ferguson plough. Its weight is, therefore, automatically transferred between the cutting edge and the rear axle and gives maximum wheel adhesion and penetration under all conditions. The operating linkage gives a closely controlled floating action which should be of great help to an unskilled driver. A scarifying grid for breaking up hard-baked ground can be supplied as an optional extra, and when not in use can be pivoted up and locked. Also optional is a reversed control outfit, which comprises a rearward facing seat pillar bolting to the central mounting pad and provision for bringing brake, hydraulic and ancillary controls within easy reach.

Bomford & Evershed Ltd., Salford Priors, Evesham, Worcs. Bidford-on-Avon 3202.

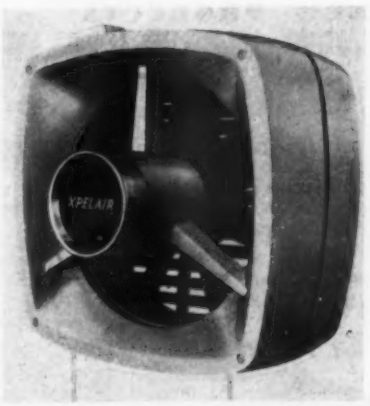
Readers' Information Service, Ref. F. Date 2/12/59.

F

★

New Xpelair Fan (G)

The new 12in Xpelair fan is of a completely fresh design. It is a reversible unit with two-speed operation and is capable of moving 60,000 cu ft of air per hour and in addition is stated to be draught-proof. Within the casing there is a built-in, cord-operated iris shutter, which is linked with an integral fan switch. The fan switches on and off as the shutter opens and closes. The direction of air flow can be changed from extraction to fresh air input by turning the socket connection from the mains supply through 90 deg. Alternatively, the direction of air flow can be remotely controlled by means of a reversing controller, which gives four running speeds in either direction and an "off" position. The new model is suitable for mounting either in window glass or walls, and has a compact external grille. It is moulded in plastic and is available in either ivory-white or black. As an alternative, the fan can be supplied without shutter and switch and without the dual speed feature. Both models, however, are reversible and can be remotely controlled. The glass or panel in which the 12in Xpelair is mounted should be ¼in thick and the hole for wall mounting should be 12¾in square. The fan is supplied for single-phase, 50 or 60 cycles, and for either 100/110, 200/210, 220/240 or 250 volts.



G

Woods of Colchester Ltd., Colchester, Essex. Colchester 5111.

Readers' Information Service Ref. G. Date 2/12/59.

★

New Wall Cladding

Ceraglass is a new wall cladding which consists of a fired ceramic enamel fused on to the reverse side of the glass, which should preferably be of ¼in or ⅜in substance. This colouring process can also be carried out on figured or decorative panels. Ceraglas, besides its use for curtain wall infilling, can be used as fascias, pilasters, and crests, with individual letterings to suit different types of buildings. It can be produced in practically all the colours of the Munsell system and in a variety of designs in multi-coloured effects, such as streaky, mottled, scumbled and marbled. The maximum size of panels should not exceed 9ft by 3ft 6in. When fixing this glass a tolerance of ¼in all round should be allowed to compensate for thermal expansion and the bottom edge should be supported by small blocks to raise the panels from the glazing frame. A good glazing compound, which will not harden, crack or shrink, should be used to keep out dampness and to overcome any movement of the panel. The makers also advise that polythene strip or a similar material should be used to prevent the glazing bead causing any undue pressure on the glass and to avoid disturbing or squeezing out the glazing compound.

NEW PRODUCTS (continued)

It is also preferable to have a cavity behind the panels which will allow ventilation so as to avoid any atmospheric or chemical action which could harm the fired colourings.

London Sandblast Decorative Glass Works Ltd., Seager Place, Burdett Road, London, E.3. Advance 1074.

Readers' Information Service. Ref. H. Date 2/12/59.

★

New Automatic Boiler Temperature Controller (I)

The Samson automatic boiler temperature controller is an instrument for controlling a heating system so that any desired room temperature is maintained constantly, irrespective of changes in weather conditions. The unit incorporates two thermostats, one of which is fixed outside in the open air, the other being connected into the boiler or boiler flow, and both work in conjunction with one another. Controls are provided for setting the

I

desired boiler temperature and any combination of open air/boiler flow temperatures can be accommodated. The boiler temperature can be automatically lowered by means of a manually operated switch. The capillary tube, which connects the outside thermostat to the unit, is unaffected by temperatures through which it passes. It is plastic-covered tube and is available in lengths of 18, 36 or 72ft. Two types of unit are available, one for controlling the automatic burner of an oil-fired boiler and the other complete with electric motor, connecting chains, etc., to control the settings of the flue and boiler dampers of a solid fuel burning boiler. Respective prices of these models are £26 4s and £36 18s.

*Samson Controls (London) Ltd., 19 Borough High Street, London, S.E.*1.

Readers' Information Service, Ref. I. Date 2/12/59.

Miniature Fluorescent Light Fitting (J)

The new Victor miniature fluorescent light fitting has been specially designed for general use in the lighting of the public parts of multi-storey flats, industrial buildings, colleges, schools, etc. It takes two Warm White lamps and has a hinged Perspex cover which provides immediate electrical isolation as soon as it is opened. The lamp holder itself is non-metallic and the natural resilience of the moulding prevents any vibratory troubles and in common with the moulded plug and socket above, the lamp holder connecting leads are moulded integrally. The fitting is designed to comply with B.S. 2467:1954 and is fully tested at the works before and after fitting lamps. It is claimed to be dustproof and weatherproof as well as corrosion resistant and there is a separate circuit for each lamp and the shrouded lamp holders will accommodate lamps of American, European and British standards of tube diameter. The new fitting may be fixed horizontally on a ceiling or horizontally or vertically on a wall. Overall dimensions 15·6in long by 3·8in high by 4·6in wide. Weight 7½lb, including two lamps. Finish: cast aluminium alloy parts are stove-enamelled in grey hammer finish; reflector tray is stove-enamelled white. Price £4 12s 6d (with one lamp) and 6gn (complete with two lamps).

Victor Products (Wallsend) Ltd. Wallsend-on-Tyne. Wallsend 68331.

Readers' Information Service, Ref. J. Date 2/12/59.

★

New Floor Dressing

The recently introduced Talbot P.V.C. Floor Paint is a dressing suitable for use on many types of floors including new and old concrete, cork, linoleum and wood. It dries to an eggshell finish and may be applied to glossy surfaces which have worn flat. It is claimed that good results can be obtained on many bituminous floors but a patch trial is recommended before use. Several coats should be applied, particularly when white is used, in order to build up a solid coating. Multicoat application is still more desirable on uneven or rough surfaces so as to bridge high spots and crevices, but such a coating can be built up over a period of time. Properties claimed for the new floor dressing are that it is quick drying and durable and has high resistance to fire, water, acids, oils, greases, salt spray, hydrocarbons and many other solvents.

E. Wood Ltd., Talbot Works, Stanstead Abbotts, Ware, Herts. Stanstead Abbotts 174.

Readers' Information Service, Ref. K. Date 2/12/59.

J

New Fire Alarm

A new manually operated fire alarm, known as the S.P.C., has been introduced with the object of safeguarding against power failures. Designed by Gerald Benney, DES. R.C.A., the S.P.C. alarm has a satin aluminium base, a 9in dome and an easy-grip handle. Each turn of the handle will produce four loud and distinctive rings which can, it is claimed, be heard over the noisiest machinery. It can quickly be fixed by screwing to the wall. Finish: Dome, red with black handle. Price: £5 19s 6d.

*Scottish Precision Castings Ltd., N. Hillington, Glasgow, S.W.*2. *Halfway* 1641.

Readers' Information Service, Ref. L. Date 2/12/59.

★

Automatic Eraser (M)

The Auto Erase is a battery powered electric eraser which removes pencil, ink or typing marks easily and cleanly. It is of American origin for use in offices and drawing offices and derives its effectiveness from speed rather than pressure. It is light in weight and can be manipulated precisely over the area which is to be removed. In fact, even a single character can be deleted without the use of a shield, and it is claimed that there is no need to protect carbon copies. The Auto Erase is powered by two standard torch batteries concealed within the case, and alternative erasers are provided for type or ink and pencil. Price 50s complete.

*Badenia Calculators Ltd., Lion House, Red Lion Street, London, W.C.*1. *Holborn* 7744.

Readers' Information Service, Ref. M. Date 2/12/59.

M

Corrugated RILITE for garages, porches, sun lounges, verandahs, shower cubicles, fences, windbreaks, etc. Plain or coloured, easily installed—shatterproof and maintenance free.

MAINTENANCE-FREE DAYLIGHT

RILITE glass-fibre sheeting, which can replace all standard sizes of corrugated asbestos or galvanised iron roofing, gives ample daylight at minimum cost. Low installation cost, because it is worked with ordinary hand tools and needs no special framing—NO maintenance cost because it is shatterproof and impervious to atmospheric conditions.

RILITE is produced with an exceptionally high degree of clarity, and at the same time diffuses the light of the sun.

RILITE
CORRUGATED GLASS FIBRE SHEET

ON ADMIRALTY LIST

Where fire-risks are present it may be advisable to use *Fire-Protective F.R. RILITE*. This has been tested by the D.S.I.R. in accordance with the requirements of B.S.476 : Part 3 : 1958. It is the first glass-fibre sheeting to be graded EXT.S.AA. —*the highest grade recognised by the Standard.*

RILITE is available in flat, reeded and decorative grades.

Please write for descriptive leaflet.

A RIL *Product*

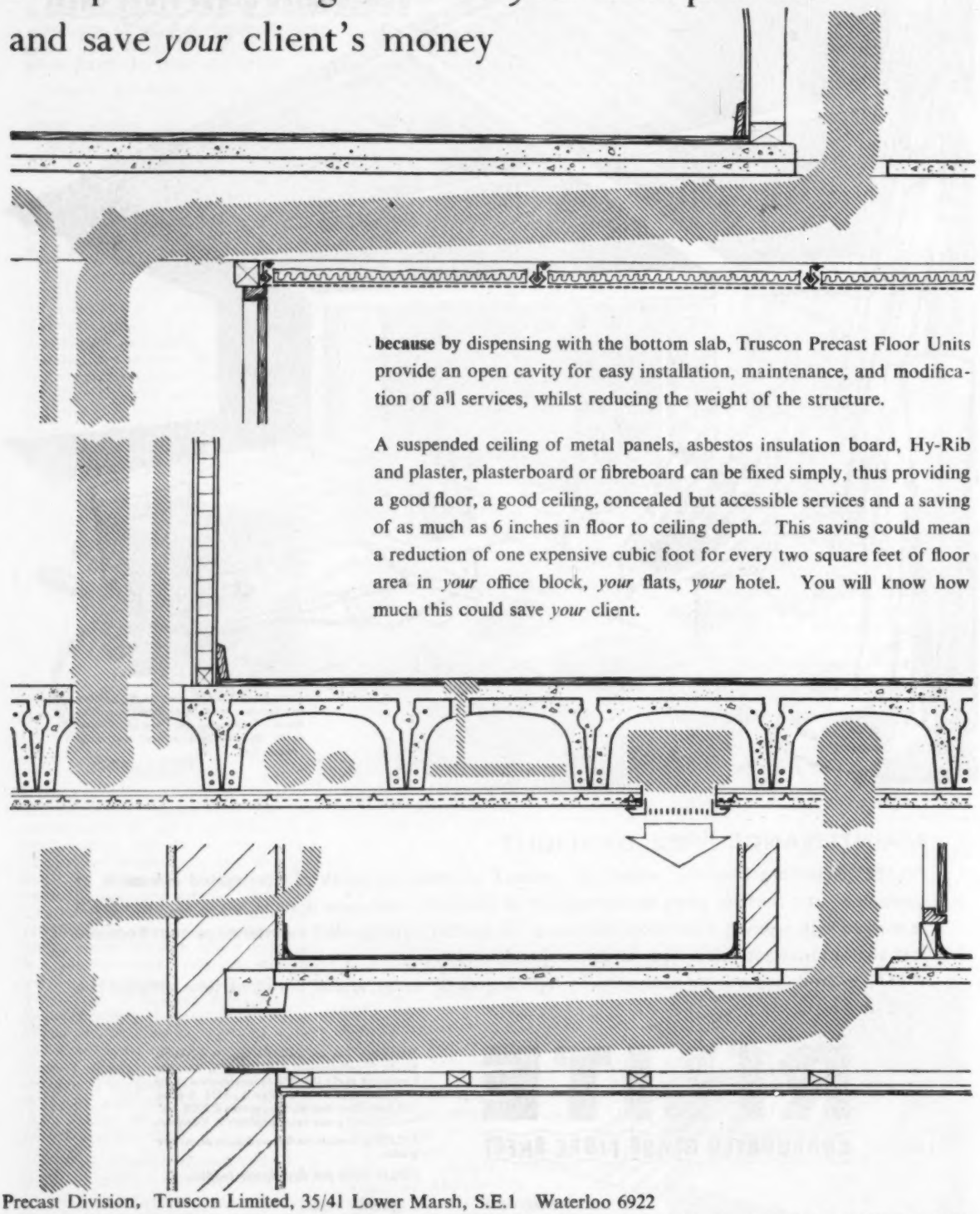
RUBBER IMPROVEMENT LIMITED, WELLINGBOROUGH, NORTHANTS.

RIL 350

9F

Truscon Precast Floors plus

a suspended ceiling can solve *your* duct problems and save *your* client's money



because by dispensing with the bottom slab, Truscon Precast Floor Units provide an open cavity for easy installation, maintenance, and modification of all services, whilst reducing the weight of the structure.

A suspended ceiling of metal panels, asbestos insulation board, Hy-Rib and plaster, plasterboard or fibreboard can be fixed simply, thus providing a good floor, a good ceiling, concealed but accessible services and a saving of as much as 6 inches in floor to ceiling depth. This saving could mean a reduction of one expensive cubic foot for every two square feet of floor area in *your* office block, *your* flats, *your* hotel. You will know how much this could save *your* client.

Precast Division, Truscon Limited, 35/41 Lower Marsh, S.E.1 Waterloo 6922

Also at: Birmingham, Central 2345-6; Bristol 21861; Glasgow, Central 0157-8; Liverpool, Central 5281-2; Manchester, Trafford Park 2766; York 24594

CURRENT MARKET PRICES (LONDON)

These prices apply to material purchased in the quantities named or otherwise as might be expected for a new building of moderate size. They include delivery and are the material basis used in the build-up of "Measured Rates" and subject to the conditions heading that schedule. Prices are under careful constant review but should be confirmed.

2 December 1959

AGGREGATES AND SAND

1½in—all in—ballast	26/6	Yard cube delivered (in five-yard loads or more)
¾in do. do.	27/-	
¾in screened shingle	24/6	
¾in do. do.	25/9	
¼in granite chippings	50/-	
Sharp washed sand	27/6	
Pit sand	24/6	
Building sand	24/-	
Broken brick	21/-	
1½in shingle	22/-	
Cartage of muck	10/-	

BUILDING MATERIALS AS DESCRIBED, CENTRAL LONDON

CEMENTS packed in paper bags	Per ton
Portland in 6ton lots	112/-
Do., from 1ton to 5ton 19cwt do.	124/-
Do., Rapid hardening (6ton lots)	122/6
Do. (but 1ton to 5ton 19cwt)	134/6
Cement "Aquacrete" (do.)	156/6
Do., "417" or "Polar" (do.)	156/6
Do., "White" 1ton (lots)	277/6

LIME—	
Hydrated .. including ..	134/6 (1ton loads) deliv'd
White .. .. Bags ..	132/- (2/3 do.) do.
	122/- (4/5 do.) do.
	120/- (6 do.) do.

PLASTER—	
Keenes, coarse, pink	234/- ton
Do. do. white	239/- do.
Sirapite, do.	175/- do.
Do. finish	183/3 do.
Hardwall, do.	174/- do.
Plaster, coarse, pink	164/6 do.
Do. do. white	174/- do.
⅜in Gypsum Plaster Lath ex works (600sq yds)	2/6½ sq yd.
⅜in Do. do. Wallboard do.	2/10 do.
3½in Jute scrim (100yd roll)	9/4 each
Cow hair (under 3cwt)	109/- cwt

FIRECLAY—	
In non-returnable bags (1ton lots)	213/- ton delivered
Fire cement	12/3 14lb

BRICKS

BACKING BRICKS (in truck loads)—	
Flettons	118/- per 1,000 delivered
Do. Keyed	120/- do.
Do. bullnose	152/6 do.
Blue wirecuts (Net)	542/- do.
White	202/- do.
Southwater engineering (Class A)	400/6 do.
Firebricks—2½in	95/9 per 100 delivered
Do. —3in	115/- do.

STOCK BRICKS—	
Mild stocks	185/- per 1,000 at Works
Second, do.	274/- do.
First, do.	300/- do.

Add for delivery—approx. 55/- per 1,000 in lorry loads.

FACINGS (ex truck or lorry)—	
Rustics	150/- per 1,000 delivered
White	220/- do.
Blue pressed, 2½in (Net)	604/- do.
Do. bullnose	618/- do.
Reds (Multi sand faced)	350/- do.
White glazed stretchers	1696/- do.
Do. headers	1670/- do.
Do. bullnose	2120/- do.
Do. double stretchers	2053/- do.
Do. double headers	2173/- do.
Breeze fixing bricks	30/3 per 100
Fire tile and lumps	34/- ft cube
Wall ties—8in by ⅞in by ⅛in, galvanized	72/6 per cwt
Cement mortar (1 : 3) hand-made	99/6 yd cube

BRICKLAYERS' SUNDRIES— AIR BRICKS	9 by 3in	9 by 6in	9 by 9in	12 by 9in
Iron .. each	2/5	3/11	5/10	7/10
Galvanized do. do.	4/1	6/9	10/2	13/7
Terra Cotta do.	1/2	2/4	5/7	11/1
Chimney pots, Terra	1ft	2ft	3ft	4ft
Cotta (11 to 24) do.	8/7	14/11	34/1	58/11

PARTITIONS— 18in by 9in Blocks keyed for plastering	2in	2½in	3in
Per yd super in 6ton lots			
In solid clinker including any half blocks	3/10	4/7	5/6
In cellular clinker blocks	3/11	4/7	5/3
In hollow clay blocks	—	4/5	5/5
Clinker blocks in small quantity	6/1	7/2	8/7

Intermediate quantities in all types may be had at intermediate prices.

Smooth in lieu of keyed faces extra cost per side 3d per yd super

SINKS— Fireclay white glazed in and out—standard quality	24 by 18in	30 by 18in	30 by 20in
London pattern, no overflow, 6in deep	73/-	90/9	100/9
Belfast, plain edge, 10in deep	86/6	144/6	194/9

FLUE, LININGS, PLAIN, CIRCULAR (FIRECLAY)—	Foot lineal Straight	Each Bends
9in diameter	4/8	14/-
10in do.	5/8	17/-
12in do.	10/9	32/9
9in diameter, beaded end, 12in high		6/3

FLUE PIPES AND FITTINGS—	4in	5in	6in
Heavy asbestos type, 6ft length	18/6	25/6	32/6
Do. 3ft length	9/3	12/9	16/3
Do. bends	7/2	9/-	10/8
Light asbestos type, 6ft lengths	16/-	20/-	25/6
Do. 3ft length	8/-	10/-	12/9
Bends	5/7	7/1	8/8
Baffler	15/5	18/4	19/4

DRAINAGE GOODS

GLAZED STONEWARE STANDARD LIST (NOV., 1956)

ORDINARY TYPE—Each	4in	6in	9in
Pipes in 2ft lengths	3/4	5/-	9/-
Bends	5/-	7/6	20/3
Junctions (4in on 4in, 6in on 6in, 9in on 9in)	8/4	12/6	27/-
Gullies with 4in outlets	12/6	13/9	22/6
4in horizontal inlets	4/-	4/-	4/-
4in vertical do.	6/-	6/-	6/-
Black iron grids	1/6	2/10	5/6

Adjustment to Current Cost

2in to 9in diameter "Best" pipes and fittings.	2ton lots or more	Less than 2ton lots: 50 pieces or more	Under 50 pieces
Percentages to add	−15½% to 20% According to Merchant.	Net to +12½%	+5% to Net

Further percentages to be independently added in respect of: British Standard pipes, etc., 10. "Best" Tested pipes, 37½. British Standard Tested, 47½.

IRON DRAINAGE GOODS— Each	4in	6in
Cast iron pipes, 9ft long	84/6	123/9
Do. 6ft do.	60/4	92/10
Do. 4ft do.	46/1	71/2
Do. 2ft do.	28/-	42/2
Short bend	19/-	50/7
Junction	33/8	70/6

CURRENT MARKET PRICES (Continued)

DRAINAGE GOODS—Continued

GULLEY PARTS—	4in	6in	
Traps, high level, invert	33/8	91/4	each
Inlet, bellmouth pattern	17/8	35/7	do.
Do. with one vertical branch	31/–	58/2	do.
Do. with two do.	84/–	122/3	do.
Extra for sealed cover	10/8	13/10	do.

RAINWATER SHOES—	4in	6in	
With vertical inlet and rebated top	44/1	87/9	each
Extension piece	19/4	23/3	do.
Flat loose coated grating	4/7	4/7	do.
Loose solid coated cover	6/2	6/2	do.

MANHOLE CHANNELS, WHITE GLAZED— Each	4in	6in	9in
Straight, 2ft long	19/2	28/1	47/2
Taper, do.	31/11	31/11	48/5
Bends, main, half section	37/–	53/7	88/–
Do., branch, do.	22/11	31/11	—
Do., do. three quarters, do.	31/11	51/–	—
Junctions, single	30/7	53/7	—
Do., double	42/1	72/8	—

BROWN GLAZED CHANNELS— Based on standard list (less than 100 pieces)	4in	6in	9in
Half-round main channel (2ft long)	2/6	3/9	7/–½
Extra for stop ends	2/6	3/9	6/9
Extra for outlets	5/–	7/6	—
Channel bends with splayed ends	7/6	11/3	—
Three-quarter section do.	10/–	15/–	—

MANHOLE COVERS—	Black
24 by 18in foot traffic	29/3 each
Do. Strong do.	53/9 do.
Do. Light car traffic	95/3 do.
Do. Road traffic	119/3 do.

SUNDRIES—	Galvanized	
Manhole steps (for 9in)	9/4	each
4in Mica valve fresh air inlets	16/–	do.
Plumber's hemp	9/–	per lb
Gaskin, caulking	1/5½	do.
Canvas backed hair felt, 4in wide	9d	per ft run

ROOFING MATERIALS

WELSH SLATES (delivered)—

Sizes in inches	Full Loads per 1,000	Quantity 500 to 999 per 100	1 to 49 per doz
22 by 11	2246/–	265/–	39/–
20 by 10	2021/6	237/6	35/–
18 by 10	1413/–	164/6	24/3
16 by 10	1120/–	131/–	19/3
14 by 9 Damp Course	668/–	70/9	10/6
14 by 4½	328/–	31/–	4/9

TILES (Brosley and Staffordshire)—	per 1,000	per 100
10½in by 6½in Machine made, 6 ton lots	302/6	44/9
Do., hand made, sand faced (Berks red)	327/–	58/–
Hips, valleys and angles	36/3 per dozen	
	per 1,000	per 100
Plain concrete tiles	210/6	25/6

Sheeting asbestos corrugated, 6in pitch	8/3¾ yd super
4½in by 16 gauge, drive screws (galvanized)	17/9 gross
7½in by ⅜ hook bolts and nuts (do.)	57/9 do.
Washers, round, flat galvanized	4/10 do.
Do. do. bituminous	2/– do.

ROOFING FELT—	
Sanded bitumen felt (44lb)	1/1 yd super
Do., but 60lb in weight	1/7 do.
Inodorous felt, best quality	2/11 do.
Do., second quality	2/3 do.
Underlining	1/8 do.
Sheathing	1/8 do.
Galvanized felting nails	2/4 lb

THERMAL INSULATION—	
½in Insulating Gypsum Baseboard (600sq yds)	2/9 sq yd
½in Do. Do. Lath do.	2/9 do.
½in Do. Do. Wallboard do.	3/– do.
½in Asbestos (Fully-compressed) Sheet	8/4 do.
½in Insulating Cork Slabs	7/6 do.
Silicate Cotton (2ton lots)	1/6 ft cube

STONE

PER FOOT CUBE in random blocks not exceeding 20ft cube in each, free on rail London.

Monks Park 9/7 St. Aldhelm 10/10
Portland brown Whitbed 9/2
Doulting 10/2 Beer 9/–

TIMBER

Softwood—sawn—random lengths.

	Per standard			Per cubic ft	
Carcassing quality	£105			12/8	
Joinery quality	£125 and up			13/4	
Plain edged unsorting flooring per square	¾in 90/–	1in 110/–		1¼in 138/–	1½in 165/–

¼in Hardboard 4/1 sq yd.
Larger quantities cost less.

SUNDRIES—	Dia.	3in	6in	9in
Black hexagon bolts, nuts and washers. Each	¼in	10d	1/2	1/5
	⅜in	1/3	1/8	2/1
	½in	1/9	2/4	3/–
Sashline, hemp, good quality Per yd Run		No. 6 10d	No. 8 1/1½	No. 10 1/5
Floor brads			84/3 per cwt	
Cut Clasp Nails			85/6 per cwt	
Steel ordinary screws	1in No. 8 3/8		2in No. 8 6/3	per
Brass, do.	Do. 9/8		Do. 17/–	gross

HARDWOOD. Normal joinery quality.		Per ft cube
Mahogany, African	Square edge	30/–
do. Honduras	do.	66/–
Teak, Burma and Siam	do.	78/–
Walnut, Australian	do.	84/–
Oak, English	Sawn Logs	42/–
do. Yugoslavian	do.	47/6
Walnut, African	do.	25/–

BUILDING BOARDS

Description	Rate	Unit
16mm Birch blockboard	202/–	Per 100ft
22mm do. do.	245/–	
Austrian Mahogany faced one side, blockboard 18mm thick	348/–	super,
Austrian figured Oak faced one side, blockboard 19mm thick	407/–	but
Beech, 6mm plywood	108/–	from one board
Birch, do. do.	81/–	
Do. 9mm do.	115/–	up to
Teak faced one side, plywood 6mm thick	374/–	a
Austrian figured Oak one side, 6mm	224/–	
Australian do. Walnut do. do. ⅜in	383/–	bundle

IRONMONGERY

	2in	3in	4in	5in	6in
Cast iron Butts, per pair	1/4½	2/4	3/7	6/11	9/8
Hinges, spring, single action regulating, japanned, each	—	8/3	12/9	16/9	22/3
Do. but double action spring only, each	—	17/6	22/3	21/–	35/9
Do. blank only, each	—	10/3	14/–	28/–	24/3

WITH KONTITE

The quick way round a tiresome delay is to specify KONTITE pipe fittings for copper tube. Kay's have a reputation for prompt delivery so that you receive your order by return or at the very most within a few days. There are over 22,000 types and sizes of KONTITE fittings, engineered in gunmetal to the highest standard of quality. KONTITE joints can be made at the turn of a spanner, saving time, labour and costs. A fully illustrated catalogue of KONTITE fittings will be sent on request.

Plan right with Kontite

KAY & COMPANY (ENGINEERS) LTD · BOLTON · LANCS · TELEPHONE: BOLTON 3041

LONDON OFFICE: 36 VICTORIA STREET · SW1 · TELEPHONE: ABBEY 2144

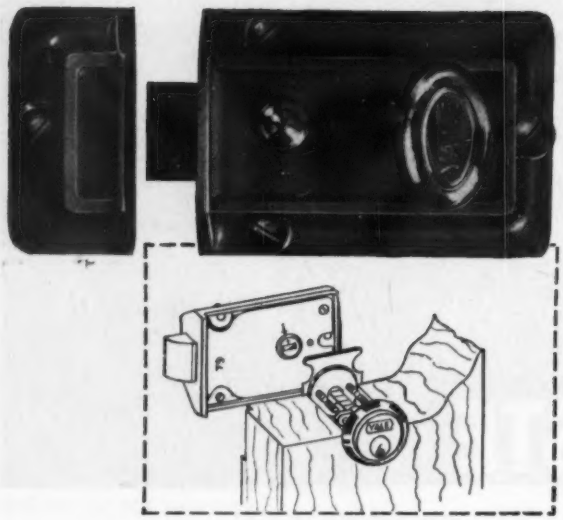
A MEMBER OF THE ALENCO GROUP OF COMPANIES

SECURITY

at a moderate cost

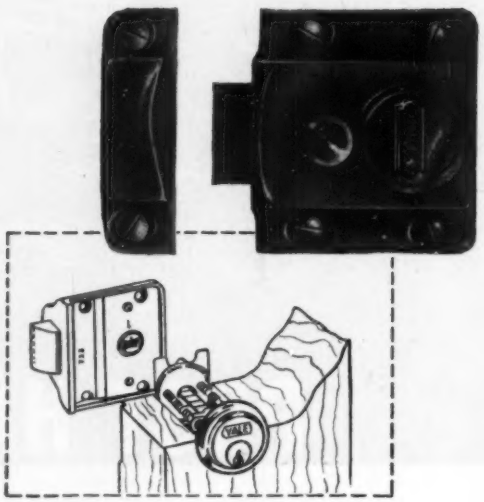
Here are two moderately priced locks to give maximum security to glass panelled doors. They are but two of the comprehensive range of Yale locks, including cylinder, lever, mortice and rim, designed to suit all security needs . . . and all pockets.

YALE NO. 79 DEADLATCH



NO. 723 DEADLATCH

for narrow stile doors



With both these deadlatches, the bolt can be deadlocked against end pressure, and the knob locked against turning, by a reverse turn of the key from the outside. This means that, even if the glass panel is broken, entry cannot be effected by turning the knob. For further security, they are fitted with Yale's special anti-pick mushroom drivers.
The No. 723 Deadlatch is specially designed for narrow stile doors, but operates in exactly the same way as the No. 79 Deadlatch. Please order through your usual Merchant or Ironmonger.

SPECIFICATION

Case and Staple Zinc Alloy Pressure Castings Enamelled Nickel Bronze Finish. 79—3½ x 2⅝ x 1 in. 723—2½ x 2½ x 1⅛ in.

Striking Plate With reverse bevel bolt for doors opening outwards.

Bolt Brass, polished. Reversible.

Cylinder Brass, turned finish. Five pin tumblers.

Knobs Brass, polished.

Keys Two, List No. 8, Nickel Silver, Changes practically unlimited.

Backset 79—2½ in. 723—1⅛ in.

For Doors From 1 in. to 2½ in. either right or left hand.

Packed One in a box, complete with screws.

Master Keyed If desired.

Literature Explanatory leaflets and detailed specification will gladly be sent on request.

Where there's a door—there's a need for

YALE
REGISTERED TRADE MARK

The YALE & TOWNE Manufacturing Company
British Lock & Hardware Division · Wednesfield · Staffs

CURRENT MARKET PRICES *(Continued)*

IRONMONGERY—*Continued*

	12in	18in	24in	30in	36in
Tee hinges (japanned) per pair	2/-	3/10	—	—	—
Do., but stronger, per pair	3/4	6/1	8/3	—	—
Hook and Ride hinges, per pair	—	—	13/4	16/3	24/10
BOLTS—each—	3in	4in	6in	8in	10in 12in
Cabinet, barrel, straight or necked	1/6	1/8	2/3	—	— —
Square spring, with brass knob	1/4	1/6	1/11	—	— —
Tower bolts	—	1/10	2/8	3/6	4/5 5/2
Barrel bolts	—	2/9	4/-	5/2	6/8 8/1
Add to Tower or Barrel bolts if necked	½*d*	¾*d*	1*d*	1*d*	1*d* 1*d*

LOCKS—each—

Rim lock, 2 lever, wrote case, brass bolt and bushing	12/9	Brass furniture	5/-
		or Bakelite do.	3/3
		Bakelite finger-plates	2/8
Mortice ock, 2 lever, bushed	12/9	Brass furniture	8/9
		or Bakelite do.	3/10

Cylinder latches, japanned case		16/-
Brass sash fastener	each	5/-
Casement fasteners (malleable)	do.	1/7
Do. stays (do.)	do.	2/2
Axle pulleys (brass face, iron wheel) 1¾in	do.	3/3
Do. as last, but with brass wheel 1¾in	do.	4/11
Sash line, No. 8 Anchor, yellow label	per yard	1/-

METAL GOODS

British rolled steel joists ex mills to basis sections on site (6in by 5in, 8in by 5in or 6in, and 10in or 12in by 6in)	£43/10/0 per ton
Extra cost over basis for following sections—	
9in or 18in by 7in, 14in by 5½in, 15in by 5in, 14in or 15in or 16in or 18in by 6in, 20in by 6½in, 20in by 7½in, 10in or 12in or 14in or 18in by 8in	10/- per ton
5in by 4½in, 7in by 3½in, 13in by 5in	15/- do.
12in by 5in, 22in by 7in	20/- do.
6in by 4½in, 7in or 8in or 9in by 4in, 10in by 5in	25/- do.
4in by 3in, 10in by 4½in	30/- do.
5in by 2½in, 5in by 3in	35/- do.
6in by 3in, 24in by 7½in	40/- do.
3in by 3in	50/- do.
4½in by 1¾in	65/- do.
3in by 1½in, 4in by 1¾in	70/- do.
1in mild steel reinforcing rods ex mill d/d	£41/9/0 do.
Extras per ton	
⅜in or ½in diameter in size	15/- per ton
⅝in	30/- do.
¾in	62/6 do.
⅞in	92/6 do.
1in	132/6 do.
1¼in	172/6 do.
Extras for length	
5ft to 3ft	7/6 do.
3ft to 2ft	15/- do.
2ft	22/6 do.
40ft to 45ft	15/- do.
45ft to 50ft	22/5 do.
Bolt and Nuts	112/- per cwt
Trench covering, including trays 1¾in deep and rebated frames, 9in wide	25/- foot run
Do., but 12in wide	27/- do.
Do., but 14in wide	30/- do.
Do., but 18in wide	39/- do.

METAL SUNDRIES

Cast iron pavement lights with 4in by 3in prism and convex lenses in alternate rows	per 33/- ft super
Iron single fire doors, panelled both sides, pivot hung and self closing, to angle frame rebated and lugged, to meet fire regulations	54/- do.
24 gauge galvanized Tallboy 6ft high, 9in diameter with 9in by 12in base	55/- each

CHAIN LINK FENCING—

In 25 yards lineal rolls inclusive of line wire.

2in mesh	Height in inches— 36	42	48	60	72
10½in wire gauge	128/-	149/-	170/3	213/6	256/-
12½ do.	89/-	104/-	118/3	148/6	178/-
14½ do.	62/3	72/9	82/9	104/-	124/6

DOUBLE SOOT DOORS AND FRAMES—

Fitted with brass turn-buckle and cast key	9in by 9in 21/6	12 in by 9in 31/3	14in by 12in 54/-

SLIDING DOORS, GATES AND PARTITIONS—

Factory sliding doors in two leaves containing about 100sq ft with mild steel angle frames covered with 24 gauge corrugated galvanized sheeting and including hanging tubular track and gear complete	18/6 ft super
Factory entrance gates with mild steel frames clad with 2in mesh chain link complete	16/6 do.

STEEL ROOF LIGHTS—

In Skylights and Lanterns, Standard type with puttyless glazing, lead flashings, and ¼in rough cast glass; in the case of Lanterns 18in vertical sashed sides are provided in addition.

Size at Base	6ft by 4ft	8ft by 6ft	10ft by 8ft
Skylights	£35 5	£50 10	£69 10
Lanterns	£55	£76 5	£110

HIGH GRADE DOMESTIC BOILERS—

Coke Fed. Performance 20 to 40 gallons raised from 40°F to 140°F per hour as under.

TYPE		£ s. d.
20 gallons per hour 15in wide, 23in high	Enamel finish	11 10 0
25 gallons per hour 17in wide, 26in high	Do. Grey Mottle	20 10 0
	Do. Cream Mottle	22 0 0
40 Gallons per hour 22in wide, 30in high	Do. Cream Mottle	38 0 0

GAS, WATER AND STEAM TUBES

BASIC PRICES

Internal Diameter—	¼in & ⅜in	½in	¾in	1in	1¼in	1½in	2in
Tubes per ft	9½*d*	10*d*	1/-	1/2½	1/9	2/3	2/8 3/9
Bends each	1/7	1/9	2/-	2/6	3/8	5/5	6/2 10/7
Elbows, sq. do.	1/8	1/10	2/2	2/6	3/-	4/4	5/2 8/6
Do., round do.	1/10	2/-	2/4	2/10	3/4	4/8	5/8 9/4
Tees do.	2/-	2/2	2/6	3/2	3/8	5/-	6/2 10/2
Crosses do.	4/4	4/8	5/6	6/6	8/2	11/-	13/2 21/-
Backnuts do.	4*d*	4*d*	6*d*	7*d*	10*d*	1/-	1/4 2/2
Sockets do.	6*d*	6*d*	8*d*	10*d*	1/-	1/4	1/9 2/6
Sockets dimin. do.	8*d*	10*d*	1/-	1/2	1/6	2/-	2/8 4/-

EX. STOCK IN ORDERS OF £10 OR MORE

DISCOUNTS OFF BASIC LIST.

TUBE—

Black	Galvanized
Medium (Blue)—35%	Medium—25%
Heavy (Red) —25%	Heavy —15%

FITTINGS—

Black	Galvanized
Heavy —10%	Heavy —2½%

RAINWATER GOODS (Painted or Unpainted

In consignments of 5cwt and over

From Standard List

Pipe:		2in	3in	4in	5in	6in
6ft lengths	each	12/10	14/5	18/11	24/8	31/6
3ft do.	do.	7/-	7/9	10/-	13/1	16/6
Shoe, ordinary	do.	2/7	3/10	5/7	9/5	12/11
Bend	do.	3/1	4/4	6/4	11/3	14/7
Branch, single	do.	4/6	6/7	9/3	14/7	22/6
Offset, 4½in	do.	3/9	5/3	7/9	12/11	17/-
Do. 9in	do.	4/11	6/6	9/8	15/3	19/3
H.R. gutter, 6ft length	do.	—	6/-	8/5	10/4	13/10
Angle or nozzle	do.	—	2/6	3/1	3/9	5/4
Stop end	do.	—	9*d*	1/1	1/6	1/9

Above plus 22½%

CURRENT MARKET PRICES (Continued)

PLASTERING MATERIALS

Sand, lime, cement and various plasters are previously included under those heads—

Metal lathing (⅜in by 24G) (20 yards)		4/– sq yard
Plaster baseboard ⅜in (1,200 yards) ex works		2/4 do.
Lath nails, galvanized		1/11 lb
White glazed tiles (6in by 6in by ¼in)	small quantity	25/3 sq yard
Do. rounded on one edge	small quantity	30/6 do.
Do. on two adjoining edges	small quantity	33/9 do.

PLUMBER'S GOODS

4lb lead sheet (in 1-ton lots)	109/– per cwt
Lead water pipe in coils (do.)	111/3 do.
Plumber's solder	3/7 lb
Copper tacks	8/5 do.

IRON SOIL AND WASTE PIPE. (5cwt lots and up)

each	2in	3in	3½in	4in
⅛in Medium pipe, 6ft length	14/6	17/2	19/3	21/11
Do., 4ft length	10/5	12/2	13/7	15/5
Bends	5/4	6/6	8/1	9/1
Do., with oval door	17/4	18/6	21/1	24/7
Junction, single	6/6	9/8	11/3	13/3
Do., with oval door	18/6	21/8	24/3	26/3
Swan necks, 4½in	6/6	10/3	11/9	13/9
Do., 9in	8/8	11/9	13/9	16/1
Holderbat, 2½in projection	5/9	5/11	6/3	6/4

Above plus 22½%

GALVANIZED CISTERNS, TANKS AND CYLINDERS—

(Less than three)

each gallons	Nominal capacity			
CISTERNS	100	150	200	300
Bends over tops and corner plates. Riveted or welded				
14 gauge	162/–	246/–	309/–	427/–
12 gauge	197/–	305/–	360/–	485/–
⅛in plate	225/–	356/–	418/–	568/–
HOT WATER TANKS				
Riveted and with hand hole and ring	20	25	30	40
12 gauge	147/–	151/–	164/–	190/–
⅛in plate	161/–	168/–	184/–	211/–
HOT WATER CYLINDERS—				
Riveted, with handhole and ring	20	25	33	39
12 gauge	167/–	182/–	203/–	219/–
⅛in plate	180/–	200/–	224/–	240/–

PLUMBER'S BRASSWORK, etc.

Each	¾in	⅞in	1in	1¼in
Boiler screws, single nut	1/6½	1/11½	3/3½	5/7
Do., double nut	2/2	2/9	5/2½	7/2
Cap and lining	1/1½	1/6½	1/10½	2/0½
Plumber's unions	2/4	2/11	4/–	7/1
Ball valves, screwed iron	13/7	21/1	—	—
Do., fly nut and union	14/7	22/7	—	—
Bib valves, crutch top screwed iron	8/3	12/3	—	—
Do., but screwed boss	9/5	13/10	—	—
Stop valves, screwed iron	7/3	10/–	—	—
Do., screwed iron and union	9/–	13/3	27/–	—
Do., double union	10/3	14/6	29/3	—
Waste, plug chain and stay	—	—	8/–	9/–
	1½in	1½in	2in	4in
Caps and screws	3/3	4/2	6/–	—
Sleeves, long	—	—	7/4	10/7
Do., short	—	4/–	4/2	8/4
Thimble	—	3/9	4/6	10/6
Full way gate valves, hot pressed	20/6	28/6	—	—
		1½in	1½in	2in
Lead 7lb P. trap		6/7	8/7	12/–
Do., S. trap		8/1	10/8	14/11
Lead 6lb P. traps with 3in seal		7/4	8/10	—
Do., but S. traps, do.		9/1	11/2	—

Wire balloon guards, copper, 2in, 3/3; 4in 3/6
Do., galvanized iron, 2in 1/11; 4in 2/1
Hair felt 34in by 30in, 24oz, 6/– sheet
Boss white jointing compound, 2/3lb
Gasket 1/10½lb. Hemp, 9/–lb.

COPPER TUBES—Extract from B.S. 659/1955—

Nominal bore	Internal work (semi-hard). Outside diameter	Gauge	Weight lb per ft	3cwt lots Price per lb pence	Price per ft pence
¼in	0.596	19	0.27	45¾	12.26
⅜in	0.846	19	0.39	43½	17.02
1in	1.112	18	0.62	42½	26.14
1¼in	1.362	18	0.76	41½	31.54
1½in	1.612	18	0.91	41½	37.77
2in	2.128	17	1.40	43½	60.38

CAPILLARY TYPE CONNECTIONS—

Add for delivery and packing on orders under £10.

All ends copper to copper

Each	¼in	⅜in	1in	1¼in	1½in	2in
Straight	1/5½	1/10½	2/10½	4/0½	8/0½	11/6½
Elbow	3/4	4/1½	5/6½	8/7½	13/11½	28/6
Tees	4/1½	4/8	6/9½	11/3½	19/4½	28/6
Brackets (Brass)	2/10½	3/5	3/10½	4/0½	6/5½	7/6½

GLASS

	Per foot superficial 24oz	26oz	32oz
English, flat drawn sheet glass cut to sizes in squares	10½*d*	1/1½	1/5½
Figured rolled, white cut to sizes, in squares (⅛in) Group 1	1/1½*d* Per ft super		
Figured rolled, white cut to sizes, in squares (⅛in) Group 2	1/4½	do.	
Ditto, but in standard tints	1/10	do.	
⅛in Rolled, cut to size, in squares	1/1½*d*	do.	
⅛in rough cast do.	1/5½	do.	
⅛in do. wired do.	1/9½	do.	
Georgian wired do.	1/9½	do.	
Fluted (No. 4) do.	1/11½	do.	
⅛in Reeded	2/3	do	
⅛in Reedlyte (narrow and broad) do.	1/6	do	
Spotlyte do.	1/6	do.	
⅛in Calorex Cast do.	1/8	do.	
Flashed Opal (15/18oz) up to 1ft super	4/2	do.	
do. do. over 1ft super	5/–	do.	
Pot Opal (15/18oz) up to 1ft super	4/2	do.	
do. do. over 1 ft super	5/–	do.	

POLISHED PLATE GLASS (Tariff) Cut to sizes.

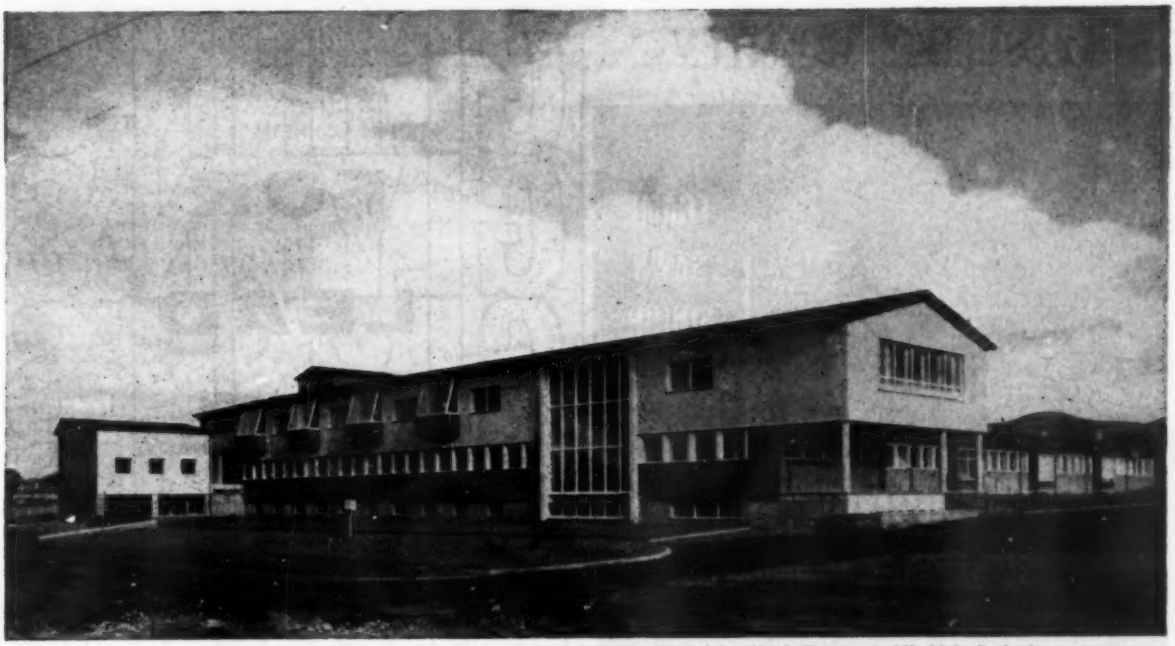
Ordinary substance ⅛in and ¼in thick.

Per Superficial ft In plates not exceeding:	General Glazing
2ft super in each	4/7
5ft do.	5/7
45ft do. (unless extra sizes)	6/9
100ft do. (do.)	7/4

Extra sizes, i.e., Plates exceeding 100ft super or 160in one way or 96in both ways at higher prices.

DECORATING MATERIAL

	Price	Unit
Aluminium Paint	42/–	Gallon
Distemper, ceiling	39/–	Cwt
Distemper, washable	120/–	do.
Enamel (eggshell)	52/–	Gallon
Gold Metallic Paint	79/–	do.
Heat Resisting Paint	40/–	do.
Japan, black	35/–	do.
Knotting	40/–	do.
Linseed Oil (5gal)	16/9	do.
Boiled, do. (do)	17/6	do.
Proprietary Paints (good class)—		
Finishing	57/6	do.
Priming (lead base)	57/6	do.
Undercoat	59/–	do.
Paperhanger's Paste	36/6	Cwt
Petrifying liquid	9/6	Gallon
Putty	54/–	Cwt
Size	12/3	Firkin
Terebine	22/–	Gallon
Turpentine substitute	6/5	do.
Varnish, oak, copal inside use	39/–	do.
Do., do., outside use	41/–	do.
Do., white, eggshell, flat	50/–	do.
White lead mixed paint	66/6	do.
White lead	167/6	Cwt
Whiting	13/3	do.



SIGHTHILL HEALTH CENTRE — *designed by the Department of Health for Scotland.*

Electric floor warming at the Sighthill Health Centre

Sighthill was designed as an Experimental Centre under the National Health Service Act. The building forms a hollow square round a central courtyard. The north wing holds administrative departments on the ground floor and dental theatres on the first floor. The south wing houses the joint services departments. The east wing comprises child welfare services and the west wing is divided into six medical suites.

Fully controlled warmth

The building is heated by electric low temperature underfloor radiant heating. This is thermostatically controlled and designed to maintain against an outside temperature of 25°F. the following inside temperatures: surgeries, recovery and X-ray rooms 70°F.; passages and lavatories 60°F.; kitchen 52°F.; other rooms 65°F. Electrical intake is "off peak" and available between 7 p.m. and 7 a.m., and 11 a.m. and 3 p.m.

Loadings

Total loading amounts to 262 kW and is designed for off-peak operation. This load comprises 232 kW embedded in the concrete floors and 30 kW in concealed wall panels. The total floor area of the building is 35,000 sq. ft.

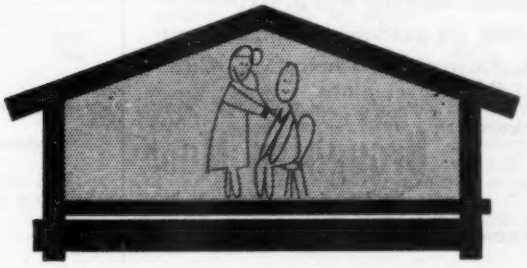
A variety of floor finishes tested

Floor finishes laid were: wood block, cork tile, thermoplastic, mastic asphalt, Caithness stone slabs and terrazzo. All these have given very satisfactory service under heated floor conditions.

Results

The installation has been running for over five years and the average annual consumption for floor warming purposes is 418,960 units costing £1,400.

Thermograph records were taken during the winter 1955/56. These show that when, in February 1956, the mean daily outside temperature was 22.6°F., the maximum drop in inside temperature during the cut-off period was only 2.6°F. Even under these extreme conditions the internal air temperature did not fall below 60°F.

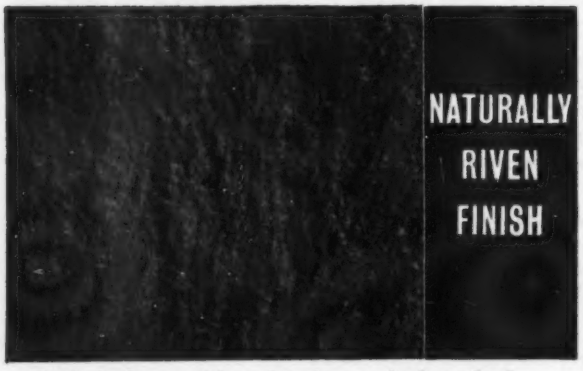


Issued by the
Electrical Development Association, 2 Savoy Hill,
London, W.C.2. Telephone: TEMple Bar 9434.

Lasting beauty

in Broughton Moor

Green Slate



Technical pamphlets showing typical methods of fixing are available on application:

1. Flooring 2. Facings. 3. Coping. 4. Cills 5. Riven Face Slabs.

In three distinct colours : Light Sea Green, Olive Green and Pale Green Barred

Broughton Moor
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GLYNN'S FOR LEAD PIPE AND SHEET

We manufacture

LEAD PIPE TO BS 602 and BS 1085. Seamless extruded in any size or weight to specification.

LEAD SHEET AND STRIP TO BS 1178. Rolled to any width up to 9′ 6″.

CHEMICAL LEAD SHEET AND PIPE. Type A AND B TO BS 334 to individual requirements.

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Associated Company: THE WEDNESBURY TUBE Co. Ltd., Bilston, Staffs.

Manufacturers of SOLID DRAWN COPPER TUBES: PLASTIC TUBES AND FITTINGS: STEEL TUBES AND FITTINGS: STEEL TUBE FABRICATIONS: MALLEABLE TUBE FITTINGS.

CURRENT MEASURED RATES (LONDON)

These apply to new work of normal character and some size. These rates are for time and materials only and carry 10 per cent in excess, so the appropriate essential on-costs should be added. The basis cost of material used in the calculation of these prices is taken from the foregoing tables which carried up to December 2, 1959.

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ESSENTIAL ON-COSTS

Fees payable to L.C.C. for District Surveyor:

The new buildings of ordinary construction not exceeding 5,000 cubic feet	£3
Over 5,000 cubic feet for every extra 1,000 cubic feet up to 1,000 cubic feet add	4/–
Buildings over four storeys add 3*d* per 1,000 cubic feet extra for each storey up to eight	3*d*

ALTERATIONS AND ADDITIONS

Up to £100 cost		£3
Over £100 up to £1,000.—	Per £100 cost	15/–
Over £1,000 up to £5,000.—	Ditto	5/–
Over £5,000	Ditto	3/–

Public buildings add 50%

Steel framed or R.C. buildings.—See L.C.C. (General Powers Act 1955) also fees in respect of means of escape in case of fire.

Allowance to cover National Insurances, Holidays with Pay and Public Holidays, Welfare, Third Party Risk, Travelling and Guaranteed Week is made in the rates attached to the items.	
Allow for Fire Insurance	1/6%
Allow for Water for use on the works and apparatus	5/–%
Allow for hoarding, or similar licences in City of London say	£10
Do. under Borough Councils per each month	say 2/6
Allow for Office, Fire, Attendance on C. of W., etc. p. week say	30/–

ADMINISTRATION AND CONTROL

Percentage costs on normal contracts in accordance with Builders Turnover per Annum see appropriate column hereunder:

	Turnover in Thousands			
	25	50	75	100
Place	13%	9%	7%	6%
At depot	6%	5½%	4½%	4%
On job				

SPOT ITEMS AND DEMOLITION, ETC.

	Per ft run
Hoarding erected and removed	20/–
Planked gangway with handrail, etc. do.	10/–
Proper gantry do.	78/–
Sleeper roadways	16/6
Needling, strutting and shoring including all labours and use and waste in erection and removal	Per ft cube 20/–

ALTERATION-DEMOLITION—	1 Brick (Per ft super)	1½ Brick (Per ft super)	2 Brick (Per ft super)	Per yard cube
Cutting out cement concrete or brickwork in small quantities	1/3	2/6	3/7	64/–
Do. if either in very small quantities or reinforced	2/2	4/1	6/–	95/–
Debris into baskets and removed from inside to outside of bldg.	3½*d*	7*d*	9*d*	14/–

SCAFFOLDING (Avg. 45ft high)

Per yard superficial	Period 1 month	3 months	5 months
Putlog type—4ft 6in lift	8/–	10/6	13/6
Do. —6ft 0in do.	5/6	8/–	10/6
Independent type—4ft 6in lift	10/6	14/6	19/–
Do. —6ft 0in do.	7/6	10/6	13/–

EXCAVATION Per Yard Cube *By hand*	Common Soil	Loamy Clay	Gravel or Clay	Rock or similar
Reducing levels	7/–	8/4	9/9	64/3
Surface trench not exceeding 5ft deep	14/1	16/10	22/5	79/10
Do. from 5ft to 10ft	25/9	28/11	34/7	87/2
Do. from 10ft to 15ft	29/3	34/10	40/11	95/4
Fill in and ram	5/9	6/4	6/4	6/2
Barrowing 25yd	3/3	3/7	3/7	4/2
Load vehicles and tip 8 miles away	17/9	17/9	18/9	19/7

PLANK AND STRUT	To 5ft deep	5 to 10ft deep	10 to 15ft deep
To trenches, in normal ground			
Per Ft Super	7*d*	8½*d*	10*d*

CONCRETE 1½in Ballast Aggregate	Per yard cube
1 : 3 : 6 Cement concrete in foundations	80/–
Do. around grillages	83/–

REINFORCED CONCRETE

1 : 2 : 4—¾in concrete, worked around reinforcement, between formwork in the following (at various levels):—	Per cubic yard
Foundations and surface beds	89/9
Walls, 12in thick or more	96/–

Sectional inches	Lintols and beams	Columns and casings	Braces and projections	
Up to 36	4/7	5/2	5/4	Per cubic ft
36 to 72	4/8	5/–	5/2	do.
72 to 144	4/5	4/11	5/1	do.
over 144	4/3	4/10	5/–	do.
Walls 6in thick			18/–	Per super yd
Do. 9in thick			29/1	do.
Suspended floors average 6in thick			19/8	do.

REINFORCING RODS (round) bent and placed. (Ex Mills)— Per cwt	¼in	⅜in	½in	⅝ to 1in
In floors and beams	92/–	80/–	75/9	67/6
In walls	98/–	85/–	79/9	70/6
In columns	105/6	90/3	81/–	73/9

FORMWORK and Supports (4 times use)— Floor soffits	Beams	Walls	Columns
20/3 per yard	3/–	2/8	2/8 per super ft

BRICKWORK

BRICKWORK per YARD superficial reduced to ONE BRICK in thickness (scaffold to add)—	In 1 : 3 cement mortar
Flettons or other similar *at* 118/– per 1,000	42/–
Mild Stocks or do., *at* 174/– per 1,000	57/9
Second Stocks or do., *at* 329/6 per 1,000	66/–
Southwater engineering or similar bricks, *at* 400/6 per 1,000	78/–
Blue Staffordshire wire cut *at* 542/6 per 1,000	94/3
Deduct if 1 : 1 : 6 Cement-Lime mortar is used in lieu of 1 : 3 Portland Cement mortar	2*d*
Add if brickwork commences above ground level	4/9
Do. if in backing to masonry including cutting and waste for bonding	3/10
Do. If circular-on-plan	9/–
Do. If in underpinning	9/–

BRICKWORK IN THICKNESS NOT REDUCED— Per yard superficial	Brick, on edge walls	Half-Brick walls	1 Brick finished fair both sides	11in Hollow with 2in cavity and G.I. TIES
In Flettons or similar	18/3	23/4	43/1	49/3
In second stocks or do.	31/–	41/–	73/–	72/–
Add: for pointing as work proceeds, per side	1/9	1/11	1/9	1/9
Thickness to old walls, including cutting, toothing and bonding to same an average total thickness of ½ brick	Fletton 57/–		Stock 72/–	Per yd super
Do. all as last but an average total thickness of 1½ bricks	78/–		102/6	do.

WALLS BUILT IN SUPERIOR BRICKS— In 1 : 3 Cement mortar, fair faced and pointed on both sides as the work proceeds:—	Half-Brick	One Brick	
In first quality Stocks at 355/6	44/–	73/–	Per yd super
In red facings at 330/–	38/6	67/9	do.
In blue pressed facings at 604/–	60/–	104/9	do.

GENERAL AND SUNDRY

Cut tooth and bond new brickwork to old			5/9 per ft
Damp proof course, double slate, horizontal			4/9 super
Do., as last, but vertical			5/9 do.
Do., bitumen, Hessian base, horizontal			1/– do.
Frames, bed and point in cement mortar, one side			4½*d* per ft run
Window board of 6in by 6in by ¾in rounded on edge			
quarry tiles, bedded, pointed, cut and fitted			4/3 do.
Terra-cotta air bricks built in and pointed, including flue	9in by 6in 6/6		9in by 9in 11/6 each
Chimney pots, plain red, set and flaunched in cement mortar	1ft high 17/–		2ft high 24/– each
Metal windows, assembled, hoisted and fixed, lugs cut and pinned and frames bedded and pointed one side in cement mortar	Up to 5ft super 15/2	10ft to 20ft super 28/5	5ft to 10ft super 18/9 each 20ft to 40ft super 47/– each
Leaving holes through walls for pipes and afterwards making good	Small pipes 3*d* per in in depth		Large pipes 6*d* per in in depth
Cutting do., and afterwards do.	11*d* do.		2/– do.
Cut mortices in brickwork or concrete for bolts or dowels and run in with cement grout			1/3 per in in depth, each
Holdfasts of stout iron hoop bent, holed and screwed to frame and built in			1/7 each

MEASURED RATES—*Continued*

BRICKWORK—*Continued*

FACING—

Extra only over common brickwork (118/– per 1,000) for facing with superior bricks in *Flemish bond* and pointing as the work proceeds.

Rustic Flettons (150/–)	4/2 per yd super
White (220/–)	9/9 do.
First Stocks (355/–)	19/8 do.
Reds (350/–)	19/3 do.
Blue pressed (604/–)	38/3 do.

If built in English bond, *Add* 12½% to above.
If do., half-brick stretcher bond, *Less* 25% off above.

COPING—

All labour and material in forming brick-on-edge coping with two course of roofing tiles under and cement weather fillets on both sides, built in cement and pointed as the work proceeds.

Per ft run	9in thick	14in thick
In picked Flettons	6/3	8/5
In first quality Stocks	8/–	12/–
In red facings	7/5	11/11

Plumbing angles	2*d* per ft run
Fair cutting	1/– do.
Fair rake cutting	1/7 do.
Fair circular cutting	1/7 do.
Fair squint or birdsmouth	1/11 do.

ARCHES

Extra over Fletton brickwork for forming window head with red facing bricks set on end and with 4½in soffits and pointing	ft run 3/9
Do. for rubbed and gauged flat arch in red rubbers set in putty with fine joints	ft super 19/–

PARTITIONS

(75 yards)	Per yd super— 2in	2½in	3in
Concrete slab partitions in cement mortar	11/5	13/8	14/8
Hollow clay do.	13/5	15/6	18/-
Cutting and bonding at angles, intersections and ends	5*d* ft run		

PAVING	1in	1½in	1¾in
Grano trowelled gauge 5 : 2	8/6	9/6	10/8 yd super
1 by 5in skirting, square top and cove bottom			2/10 ft run
¾in by 6in red quarry tile paving			32/– yd super
¾in by 6in do. skirting			1/11 ft run
Jointless flooring, ¼in thick			20/– yd super

ASPHALT (normal conditions for 200 yds super and upwards)

	B.S. 1450/48	B.S. 1375/47	
¾in pitch mastic floor in one coat on felt underlay on prepared concrete base			
Per yd super	13/6	Brown 15/– Mastic B.S.988	Red 16/6 Natural Rock B.S.S.1162/44
Unit			
¾in in two thicknesses on felt underlay on prepared concrete base	yd super	14/3	18/6
Do. in narrow widths	ft super	2/–	2/7
¾in skirting 6in high, angle fillet at bottom splayed and turned in at top	ft run	2/4	2/7
External angles	each	6*d*	6*d*
Internal do.	each	10*d*	10*d*
Tanking or Damp Course		B.S.1097/43	B.S.1418/47
Vertical in two thicknesses	yd super	19/6	24/6
¾in horizontal do.	yd super	13/–	18/9
Vertical in three thicknesses	yd super	26/6	33/–
1¼in horizontal do.	yd super	19/–	27/6
Labour rounded external angle	per ft run	6*d*	6*d*
Do. internal angle fillet	per ft run	10*d*	11*d*
Do. double do.	per ft run	1/8	1/8
Collars to small pipes	each	3/6	4/–
Do. to large pipes	each	6/9	7/6

DRAINAGE

Excavate trench, and plank and strut to sides, consolidate bottom to fall, return, fill and ram earth after drain is laid and load and remove surplus. In ordinary ground—moderately firm. (By hand)

Per lineal yd	
1ft in depth	5/10
2 do.	9/11
3 do.	22/9
4 do.	29/7
5 do.	36/6
6 do.	54/11
7 do.	67/6
8 do.	80/–
9 do.	92/6
10 do.	104/11
11 do.	128/1
12 do.	144/11

Portland cement concrete bed under pipes and benching both sides—6in thick	(1 : 6) drain up on 4in 18in wide 8/6	Per yd run 6in 20in wide 10/–	9in 23in wide 12/3

SALT GLAZED SANITARY DRAIN PIPES

and lay and joint with Yarn and Cement Mortar in trench.

Quality	Quantity	Per ft run 4in	6in	9in
"Best"	2ton or more	3/1	4/7	7/7
	50 pieces and over	3/5	5/3	8/6
	under 50 pieces	3/6	5/4	8/10
"Best Tested"	2ton or more	3/9	5/10	9/2½
	50 pieces and over	4/2	6/3	10/2
	under 50 pieces	4/3	6/5	10/10
"British Standard"	2ton or more	3/3	4/10	8/–
	50 pieces and over	3/8	5/6	9/–
	under 50 pieces	3/9	5/7	9/4
"British Standard Tested"	2ton or more	3/10	5/9	9/7
	50 pieces and over	4/5	6/8	11/–
	under 50 pieces	4/6	6/9	11/5
Extra for bends "Best"—Contained in 2ton lots		4/2	6/3	16/6
Extra for junction "Best"—4in on 4in—6in on 6in—9in on 9in	do.	6/6	9/9	27/–½

IRON DRAIN PIPES—

Heavy cast iron socketed and laying and jointing in molten lead—	Per ft run 4in	6in
In main runs	14/5	20/2
In branches	16/6	23/4
	each	
Extra over last for bends and extra joint	30/2	66/1
Do. on do. for junctions and extra joint	45/4	86/–
Cast-iron gulley with 10½ inlet and 4in outlet, composed of hooper and trap, and 9in extension piece and 10½in grating, and jointing all together, and jointing to drain and surrounding in concrete	183/–	—
Do. rain water, shoe with vertical inlet and inspection cover, and joint up and embed	85/9	143/6

MANHOLE SUNDRIES—

		4in	6in
Salt glazed straight half-round main channels	each	6/–	8/7
Do. curved	do.	14/–	20/–
Do. three-quarter section splayed channel bends (Barrons or similar)	do.	18/–	26/6
Heavy manhole steps galvanized	do.	9/9	—
Fix only manhole covers	do.	11/6	—
4in Mica flap, brass faced, f.a.i. valves and fix with molten lead joint	do.	41/–	—

ROOFER

CORRUGATED ASBESTOS SHEETS

P.C. 8/3¾ per super yd including side and end laps and fixing to wood	162/6 per square
Eaves filler pieces	2/6 ft run
Adjustable ridge	4/9 do.
Barge boards	3/4 do.
Plain roofing tiles, machine made, sand faced, 4in gauge nailed every 4th course with 1½in galvanized nails, to battens (measured separately)	263/– per square
Extra over last for top edge or abutment cutting	1/4 ft run
Do. for double course at eaves	2/5 do.
Do. for verges, undercloak, bed and point	3/9 do.
Do. Valley tiles including cutting and waste on both sides	11/3 do.
Do. Bonnet hips and do. bed and point	11/9 do.
Half-round ridge and bed and point	3/6 do.
Fixing soakers	1/8 dozen

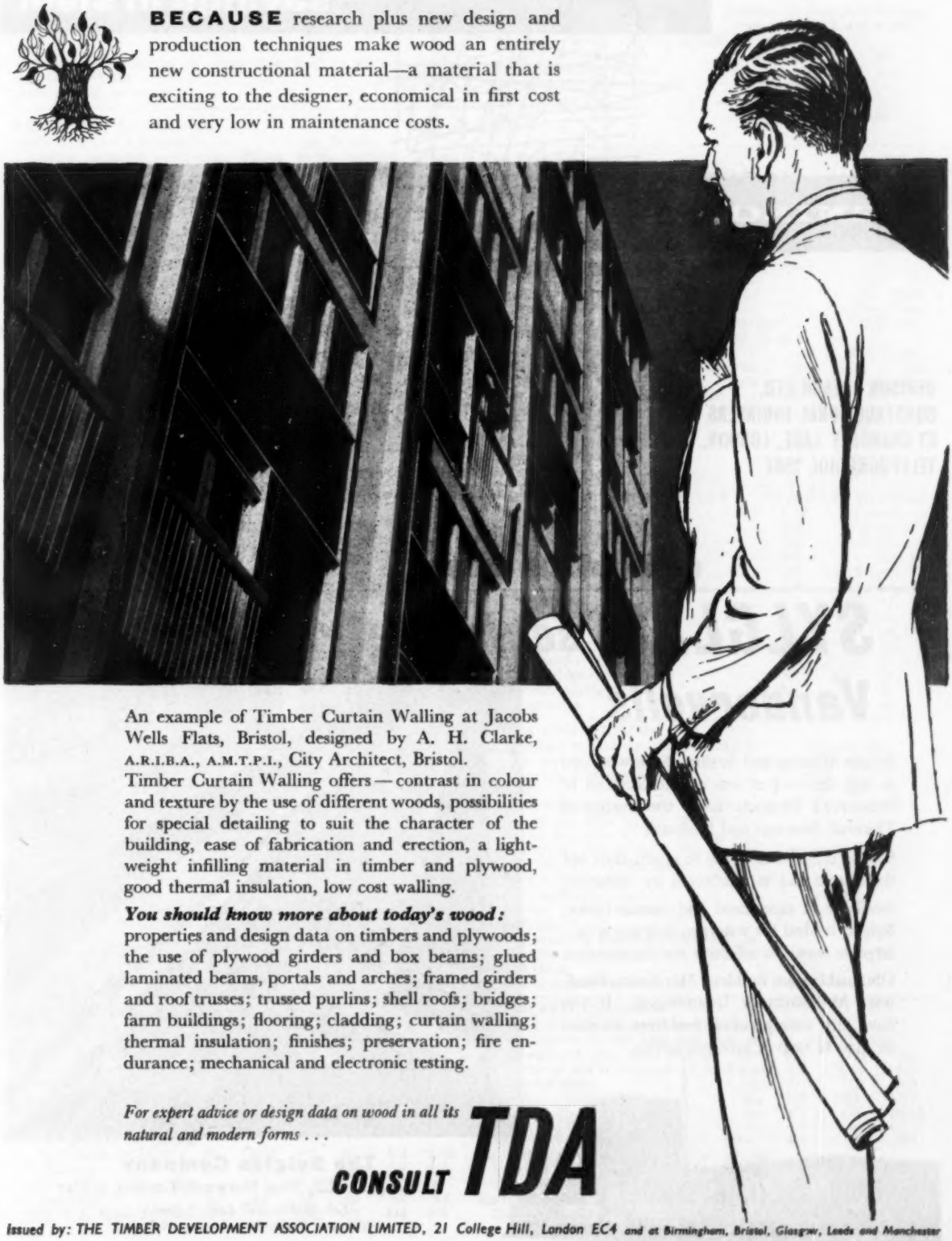
Bituminous felt roofing in two layers, laid breaking joint and bedded with hot mastic and finished with fine dry grit	12/6 yd
Do. but in one layer only	9/– super

WELSH SLATING	Per square 16"+10"	18"+10"	20"+10"
3in lap, 2 zinc nails to each slate	341/–	356/–	414/–

Additional labours	Per ft lineal 1/9	1/10	2/2
At tops, verges and abutments—straight			
Do. —raking	2/7	2/9	3/1
At hips and valleys (each side)	2/7	2/9	3/1
At eaves, double course	3/6	3/8	4/2
Do. to falls	5/3	5/4	6/3

Why a NEW era for Wood?

BECAUSE research plus new design and production techniques make wood an entirely new constructional material—a material that is exciting to the designer, economical in first cost and very low in maintenance costs.



An example of Timber Curtain Walling at Jacobs Wells Flats, Bristol, designed by A. H. Clarke, A.R.I.B.A., A.M.T.P.I., City Architect, Bristol.
Timber Curtain Walling offers — contrast in colour and texture by the use of different woods, possibilities for special detailing to suit the character of the building, ease of fabrication and erection, a light-weight infilling material in timber and plywood, good thermal insulation, low cost walling.

You should know more about today's wood:
properties and design data on timbers and plywoods; the use of plywood girders and box beams; glued laminated beams, portals and arches; framed girders and roof trusses; trussed purlins; shell roofs; bridges; farm buildings; flooring; cladding; curtain walling; thermal insulation; finishes; preservation; fire endurance; mechanical and electronic testing.

For expert advice or design data on wood in all its natural and modern forms . . .

CONSULT TDA

Issued by: THE TIMBER DEVELOPMENT ASSOCIATION LIMITED, 21 College Hill, London EC4 and at Birmingham, Bristol, Glasgow, Leeds and Manchester

TDA TD164A

savings in steel

DENISON FRENCH

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CONSTRUCTIONAL ENGINEERS
67 CHANCERY LANE, LONDON, W.C.2
TELEPHONE HOL 2587

Steel is at the core of a good building. We have been designing structural steelwork for 32 years, improving the quality, cutting the steel weight, often by 20% or more, and speeding up deliveries.

Advice and design suggestions are freely given at the initial stages to save the cost of later modifications.

SYLGLAS seals the roof for Vandervells

Sylglas Glazing and Sealing Tape was used to seal the roof of one of the factories of Vandervell Products Ltd., the makers of Thinwall Bearings and Bushings.

Sylglas is quick and easy to apply, does not deteriorate and is unaffected by vibration.

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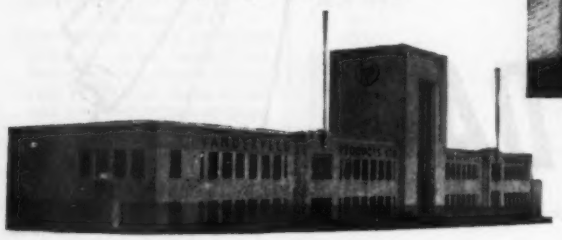


The Sylglas Company
81 Knight's Hill, West Norwood, London, S.E.27
Tel: GIPsy Hill 4247 (5 lines)
'Grams: Snowwhite, London, S.E.27

MEASURED RATES—*continued*

FLOORS AND FLATS

Hollow tile *in situ* or pre-cast units hoisted, bedded and fixed—

Superimposed load in lb per ft super	Span 12ft	Span 16ft
50 ..	44/9	52/9
Per yd super 100 ..	47/-	59/-
150 ..	53/9	67/3

20lb has been allowed to cover dead load in surface, finish.

Fair edge to slabs	9*d* per ft run
Splay cutting and waste	1/9 do.

CARPENTER AND JOINER

SOFTWOOD CARCASSING—	per ft cube			
Labour, materials, waste nails, hoisting and fixing ..	Plates 19/2	Joists 20/8	Rafters 22/4	Trusses 25/6

FLOORING— Per square—	¾in	1in	1¼in
Rough boarding	144/-	171/-	203/-
Softwood batten flooring, straight joints, splayed headings	146/6	167/6	206/-
Do. grooved and tongued	167/6	189/6	244/-

SKIRTING— Per ft superficial—	½in	¾in	1in
Wrot softwood moulded skirting with grounds and backings plugged ..	4/-	4/8	5/3

Mitres to do. .. 3*d* per sectional in.
Fitted ends .. 2*d* do.

SASHES, fanlights, casements, borrowed lights, etc.—

Per ft super—	Without bars	With bars (2ft sup. in each square)
2in softwood rebated, moulded and fixed	3/6	6/5
Add if fitted with beads	6*d*	1/6
Add if hanging on butts	3/- each	

WINDOWS, hung on lines—
Softwood cased frames, 1in inner and outer linings, 1¼in pulley stiles, 2in sashes, oak sill ..

	Overall size of frames— 6ft	21ft	32ft	44ft
Per ft super				
Windows as described ..	21/6	12/-	9/-	7/-
Add if sashes in squares, about 2ft super in each	—	1/8	2/2	2/2
Extra for hanging sashes with lines, weights and axle pulleys	each 38/-	66/-	77/-	88/-

FINISHINGS TO OPENINGS—	Per ft super— ¾in	1in	1¼in	1½in
Softwood linings, tongued at angles and tongued to frame including grounds and backings	4/8	5/3	5/10	6/4
Add if crosstongued	8*d*	8*d*	8*d*	8*d*
Softwood wrot rounded on front edge and with tongue at back window board including groove in sill and bearers	3/10	4/4	5/-	5/6
Add for ends to last notched, returned and rounded	1/1	1/2	1/3	1/4

Per ft run— Softwood wrot and fixed in	Sectional area in in— 1	2	3	4	5	6
bearers, backings, grounds, fillets, and similar	4½*d*	7*d*	9½*d*	1/-	1/3	1/5
Add if in short lengths ..	2*d*	2*d*	2½*d*	2½*d*	3*d*	3*d*
„ if plugged to brickwork ..	6*d*	6*d*	6*d*	6*d*	6*d*	6*d*
„ if framed as in legs and bearers	3*d*	3*d*	4*d*	4*d*	6*d*	6*d*
„ if rebated or grooved or beaded	2*d*	2*d*	2*d*	2*d*	2*d*	2*d*
„ if chamfered or rounded edges				3*d*		
„ if moulded in architraves, capping, etc.				6*d*		

DOOR FRAMES— Per ft run	6in	8in	10in	12in	13½in
Per sectional in— Softwood, wrot, reb. & rdd. ..	2/3	2/8	3/2	3/6	3/10

DOORS—Per ft super	Number of panels— 1	2	3	4	5	6
2in Softwood square framed and flat panels, both sides, on butts ..	6/-	6/10	7/5	8/-	8/4	8/10
1½in do.	5/4	6/2	6/7	7/2	7/7	8/1
Add for each side moulded	3*d*	4*d*	5*d*	6*d*	7*d*	8*d*
Add B.S. flush panelled	1/6	1/6	1/6½	1/7	1/8	1/8

Per ft super— In shelves, table tops, wrot and fixed	¾in 2/5	1in 2/9	1¼in 3/4	1½in 3/9
Do. in divisions and ends framed ..	2/9	3/1	3/8	4/3
Add if crosstongued	6*d*	6*d*	6*d*	6*d*
Add if buttoned	6*d*	6*d*	6*d*	6*d*

SUNDRIES—Per ft run—	In short lengths	In long lengths	Add for cups and screws
Glazing, beads mitred around and fixed with beads	6*d*	4*d*	2*d*
Rounded heel or hollow		4*d*	
Tongued and grooved angle ..		6*d*	
Glue blocking		6*d*	
Mitres	3*d*	per sectional in	
Fitted ends	2*d*	do.	

STAIRCASE—	Per ft super
1¼in Softwood treads with moulded nosings 1in risers tongued both edges and glued, blocked and bracketed on and including two fir framed carriages	6/6
Do. but in winders	8/-
1¼in crosstongued landing on framed carriages	6/3
2in moulded string	5/6
2in do. ramped	14/-
Ends framed to newel	10/- each
Tongued heading joints	6/- do.
Ends of treads and risers housed to string ..	3/6 do.
Extra for curtail ends to steps, glued up and veneered riser and solid blocking	100/- do.

Balusters about 2ft 9in long, square and framed each end .. .. each	1in 2/6	1¼in 3/1	1½in 3/6

¾in by ¾in square newel, framed .. 4/- per ft run
African mahogany moulded 3in by 2in hand-rail. (Joints below) 9/3
Do. ramped 18in girth (do.) .. .. .. 54/- each
Do. wreathed do. (do.) .. .. 160/- do.
Joint or framed ends .. .. 12/- do.

FIXING ONLY IRONMONGERY	To deal	To hardboard
Barrel bolts	1/10	2/9 each
Flush bolts	5/6	4/10 do.
Sash fasteners	2/6	3/- do.
Rim locks and furniture	4/6	6/- do.
Mortice locks and do.	7/6	17/9 do.
Cupboard locks	2/9	3/5 do.
Casement fasteners	2/3	2/9 do.
Do. stays	2/3	2/9 do.
Grip handles	2/7	3/5 do.
Spring catches	2/3	2/9 do.
Cabin hooks	1/10	2/5 do.
Floor springs including oil	49/-	63/- do.
Overhead springs	14/7	20/- do.
Springhinges	14/-	19/- do.

SMITH AND FOUNDER

Basis framed steel joists and hoist and fix	81/6 per cwt
Do. but in compound girders ..	91/6 do.
Do. but in stanchions	93/6 do.
Trusses	130/6 do.

Additional cost per cwt over basic sections for following R.S.J.s 9in by 7in, 10in by 8in, 12in by 8in, 14in by 8in, 16in by 8in, 18in by 6in, 18in by 7in, 20in by 6½in, 20in by 7½in 8*d* per cwt
22in by 7in, 1/1 cwt 4in by 3in .. .. 1/10 do.
5in by 3in, 5in by 2½in .. .. .. 2/2½ do.
6in by 3in, 24in by 7½in .. .. .. 2/6 do.
3in by 3in, 2/9 cwt 4½in by 1½in .. 4/- do.
3in by 1½in .. .. 4/4 do.
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts 174/- do.
Forged straps .. .. 132/- do.
Wrot iron balustrade .. .. .. 175/- do.

RAINWATER GOODS—

Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing with pipe nails and gas barrel distance pieces to plugs in brickwork	Per ft lineal 2in 4/5	3in 4/10	4in 6/2
Extra for shoes .. .. .. each	5/7	7/2	10/3
Do. junctions .. .. do.	8/5	10/9	15/7
Do. bends .. .. .. do.	6/7	8/6	10/10

RAINWATER GUTTERS Per ft. run—	4in	5in	6in
Half round CI gutters jointed in red lead and bolted and fixed on iron brackets	3/11	4/8	5/9
Ogee do. All as last	4/4	5/-	6/3
Extra for stop ends	3/2	3/10	4/-
Do. angles or outlets	5/6	7/-	8/4

MEASURED RATES—*continued*

PLUMBER

EXTERNAL—	Soakers	Flats	Flashings
4lb Milled Sheet lead per cwt	147/-	188/-	200/-

LEAD PIPES: running joints, etc.

Per ft run	½in	¾in	1in	1¼in	1½in	2in
Main { Fixed	4/5	6/0½	8/3	10/5½	13/5½	17/11
Service { with	3/11	5/3½	7/-	8/7	10/10½	14/2
Waste { hooks	2/9	3/10	5/-	7/4	7/11	10/1
Bends each	—	—	—	1/9	3/-	8/-
Solder joints do.	9/8	11/8	13/5	13/8	18/2	23/8
Union and joints do.	13/10	16/9	20/6	26/2	—	—
Stop valve and *do.* do.	27/10	37/10	52/-	82/6	—	—
Bib valve and *do.* do.	19/4	26/7	—	—	—	—
Ball valve and *do.* do.	26/4	36/-	51/9	79/-	—	—
Sleeve and *do.* do.	—	—	—	—	21/3	29/3

COPPER TUBES

	½in	¾in	1in	1¼in	1½in	2in
Tubes per ft run ..	3/1	3/11	5/-	5/9	7/-	9/11½
Couplings: straight each	3/-	3/6	5/-	6/10	11/6	15/10
Do. Elbows each ..	5/4	6/3	8/4	12/2	18/6	35/-
Do. Tees do.	8/7	9/11	13/3	19/-	28/7	39/9
Overflow bends ..	9/2	11/8	16/5	-	—	—
Stop cocks do. ..	22/-	31/6	50/-	77/-	97/-	153/-

BLACK TUBING (Heavy) fixed with pipe brackets	½in	¾in	1in	1¼in	1½in	2in
Tubes, per ft run ..	2/7	3/-	3/7	4/6	5/-	6/11
Bends and fix, each ..	5/-	5/11	8/-	10/6	12/2	18/6
Tees and do.	5/5	6/9	8/-	10/2	12/5	18/2
Fire bends	2/2	2/9	3/1	3/4	4/5	8/-

Coated iron (M) weight L.C.C. soil and waste fixed with nails and pieces and molten lead joints	2in	4in	
	5/9	8/4	ft run
Extra only for bends and joint ..	14/9	23/8	each
Do. junctions and joints	16/4	29/9	do.
Do. cleaning doors	16/-	17/6	do.
Domical wire guards	2/6	2/9	do.

PLASTERER—			yd super
Lime and hair	½in	Render and set	7/3
Do.	1½in	Do. float and set	10/6
Sirapite	½in	Skimming coat	4/-
Do.	½in	Render and set	8/2
Do.	¾in	Render, float and set	10/2
Portland	½in	Backing coat	4/10
Do.	½in	Plain face	8/3
Do.	¾in	Floor screed	5/-
Keenes	½in	Skimming coat	5/3
Dubbing	½in	Thick or less	3/-
Metal Lathing	½in	mesh by 24 Gauge	7/-

6in by 6in by ¼in Earthenware Plain Glazed Tiles, in fair quantity white, and setting (on prepared screed) .. 45/-
Rounded edge. Extra over last .. .. 6*d* per ft run
Angles in do. .. .. 6*d* each
Cutting and fitting. Around pipes or clips .. 1/6 do.
Narrow widths. 3in to 6in wide. Add 75 per cent to plain surface.
Do. 6in to 12in do. Add 40 per cent to plain surface.
Sundry labours per ft lineal:—
Quirk 3*d*. Arris 4*d*. Fair edge 3*d*. Rounded edge 5*d*.
Flush bead 1/9.
Mouldings—6*d* per in girth.
Jointing new plastering to old 4*d*.

POLISHING	Ft super	6" Girth Ft run
NEW WORK—		
Staining, bodying-in and French Polish	3/-	2/-
Staining and wax polishing on hardwood	1/6	1/-
OLD WORK—		
Cleaning down old work and repolish	1/4	—
Stripping, preparing and repolishing ..	3/4	2/3

INTERNAL PAINTING
With white lead base in common colours, with brushes.

	Knot stop and prime	Prime and paint once	Prime and paint twice	Add for each extra coat
ON WOOD—				
General surfaces	2/9½	5/7	8/-	2/4 yd super
Running lengths not exceeding 3in wide	4½*d*	8½*d*	1/-	3½*d* yd run
Do. 3in to 6in wide	5½*d*	11*d*	1/4	4½*d* do.
Do. 6in to 9in wide	9*d*	1/6	2/1	7½*d* do.
Do. 9in to 12in wide	11*d*	1/11	2/7	9½*d* do.
Sash square each side	5/5	10/3	14/11	4/4½ per do.
Do. in large squares	8/3	15/-	21/-	6/7 do.
Opening edges ..	7*d*	1/2	1/9	7*d* each
Casement frames each side	6*d*	1/-	1/4	5*d* yd run
Mullions or transoms do.	8*d*	1/5	2/-	7*d* do.

ON PLASTER—	One coat	Two coats	Three coats	
Paint on surfaces	3/1	5/10	8/3	per yd super
Do. on mouldings ..	3/5	6/5	9/2	do.
Do. on enrichment ..	6/2	11/8	16/6	do.
ON STEEL				
Paint on structural steel ..	2/5	4/7	6/10	do.
Do. on roof trusses ..	2/8	5/1	7/8	do.
Do. on metal windows measured over all on both sides, divided into squares	3/5	5/9	8/7	do.
Do. divided into large squares	2/10½	5/-	6/9	do.
Do. divided into extra large squares	2/5½	4/2	5/10	do.
Do. on opening edges ..	10*d*	1/6	2/-	each
Do. on rain water pipe ..	10*d*	1/6	2/2	yd run
Do. on do. gutter	1/3	2/8	3/7	do.
Do. on small pipe	3*d*	6*d*	10*d*	do.

GLAZING (to New Work)

Polished Plate Glass ordinary substance (about ¼in), glazing quality, in the following sizes, glazed complete—Per ft super
in plates not exceeding 2ft super in each 7/2
Do. 5ft do. 8/3
Do. (unless extra sizes) 45ft do. 9/7
Do.(unlessextrasizes) 100ft do. 10/2
Add extra price for glazing with screw beads or clips 5*d* per ft super.
Do. if glazing bedded in washleather or velvet 9*d* per ft run.

SHEET GLASS, glazed, complete, per ft super, in new work:
Ordinary quality clear, glazed to wood with putty:—

24oz as described		1/6½
26oz do.		1/9½
32oz do.		2/2
¼ figured rolled, glazed to wood with putty { Group 1	Per ft super	1/9½
{ Group 2	do.	2/1½
Do. in standard tints	do.	2/7
No. 4 Fluted, glazed do. ..	do.	2/8½
⅛in Reeded (narrow, broad, etc.)	do.	3/0½
Reedlyte do.	do.	2/2½
Spotlyte do.	do.	2/2½
¼in Rough cast do		2/2½
¼in do. wired do.	do.	2/6
¼in Georgian Rough Cast do. ..	do.	2/6½

Add for glazing all as before but to steel to similar work as above, 1½*d* per superficial ft.

PAINTER AND DECORATOR

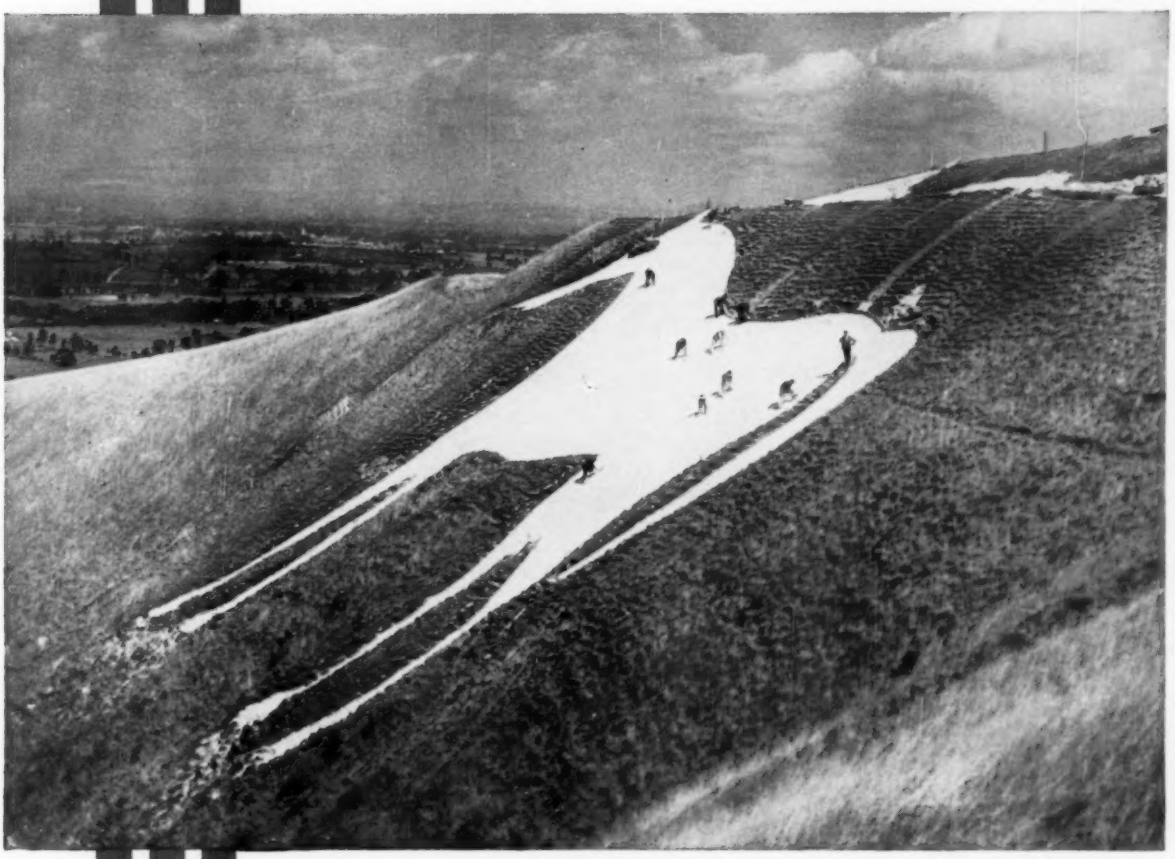
DISTEMPERING—In common colours, put on with brushes—
ON PREPARED SURFACE

per yd super—	1 coat (finish)	2 coats (undercoat and finish)	*Add* if required Sealing coat	Stippling
Ordinary distemper on flat surface of plaster ..	10*d*	1/6	6*d*	3*d*
Washable do. on do. of plaster	1/-	1/10	6*d*	3*d*
Add if in margins, narrow widths or panels ..	30%	30%	20%	50%
Add if on mouldings ..	50%	50%	45%	—
Add if on enrichments ..	160%	160%	115%	—

PAPERHANGING

Hanging only—	Per Piece—Lining	Pattern
On walls	7/6	9/-
On stairs	10/3	12/-
On ceilings	9/-	10/6

The White Horse of Westbury*



* When the Ministry of Works recently decided to re-surface the famous White Horse of Westbury, Tunnel White Portland Cement was used. This monument, which commemorates the victory of Alfred the Great over the Danes at Ethandune in the year 878, is now permanently white. The periodic re-cutting of the chalk is no longer necessary.

For full particulars of Tunnel White Portland Cement and our wide range of Coloured Cements please write to our head office.

THE TUNNEL PORTLAND CEMENT COMPANY LIMITED · LONDON ·

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hardboard

A TYPICAL SALIGNA-GUM PLANTATION IN NATAL

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STOCKED BY ALL LEADING TIMBER AND BUILDERS' MERCHANTS

ARCHITECT & BUILDING NEWS DETAIL SHEETS

Edited by Edward D. Mills, F.R.I.B.A., F.R.S.A.

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Servery Units, Flats at Ham Common	James Stirling & James Gowan	519.E.13.
Processing Counters, Gatwick Airport	Yorke, Rosenberg & Mardall	520.G.13.
Enquiry and Ticket Counter, Gatwick Airport	Yorke, Rosenberg & Mardall	521.G.13
Wall and Window, Hotel, Curzon Street, London	Bronek Katz & R. Vaughan	522.B.2.
Granite Facing, Washington Hotel, Curzon Street, London	Bronek Katz & R. Vaughan	523.B.2.
Cashier and Clerks' Counter, Bank, Washington Hotel, Curzon St., London	Bronek Katz & R. Vaughan	524.B.13.
Balustrade Details, Assembly Hall, Infants' School, Harpenden	Architects' Co-Partnership	525.D.7.
Kitchen Hatches, Infants' School, Harpenden	Architects' Co-Partnership	526.D.13.
Stair, Chemical Factory, Dagenham	Edward D. Mills & Partners	527.A.7.
Entrance and Canopy, Chemical Factory, Dagenham	Edward D. Mills & Partners	528.A.5.
Penthouse Wall, Hotel, Curzon Street, London	Bronek Katz & R. Vaughan	529.B.2.
Entrance Stair, Chemical Factory, Dagenham	Edward D. Mills & Partners	530.A.7.
Tank Room, School, Bloxwich	Richard Sheppard, Robson & Partners	531.D.17.
Proscenium and Sounding Board, School, Chatham	Richard Sheppard, Robson & Partners	532.D.17.
Roof Details, Assembly Hall, Girls' School, Chatham	Richard Sheppard, Robson & Partners	533.D.4.
Display Fitting, Administration Block, School, Bloxwich	Richard Sheppard, Robson & Partners	534.D.13.
Roof and Wall, Driving School and Workshops, Maidstone, Kent	Richard Sheppard, Robson & Partners	535.G.2.
Entrance Canopy, School, West Hatch, Essex	Richard Sheppard, Robson & Partners	536.D.4.
Typical Wall Details, School, Bloxwich	Richard Sheppard, Robson & Partners	537.D.2.
Entrance Lobby, Church, Sheffield, Yorks.	Basil Spence & Partners	538.J.5.
Staircase, Church, Sheffield, Yorks.	Basil Spence & Partners	539.J.7
Pews, Church, Sheffield, Yorks	Basil Spence & Partners	540.J.13.
Bench Unit, Standard Detail, Schools	Richard Sheppard, Robson & Partners	541.D.13.
Sunbreakers, Offices, Ibadan, Nigeria	Architects' Co-Partnership	542.B.6.
Verandah Details, House, Enugu, Nigeria	Architects' Co-Partnership	543.E.6.
Horizontally Pivoted Shutters, Offices, Ibadan, Nigeria	Architects' Co-Partnership	544.B.6.
Window Details, Offices, Apapa, Nigeria	Architects' Co-Partnership	545.A.6.
Can Gantry, Factory, Wigan	J. Douglass Mathews & Partners	546.A.17.
Door, Entrance Hall. Factory, Wigan	J. Douglass Mathews & Partners	547.A.5.
Louvred Doors to Air-conditioning Units, Portman Street, London	Fry, Drew, Drake & Lasdun	548.A.9.
Door, Conference Room, Offices, Portman Street, London	Fry, Drew, Drake & Lasdun	549.B.5.
Door Detail, Offices, Portman Street, London	Fry, Drew, Drake & Lasdun	550.B.5.

Amendment

Sheet Number 533 published as D13 should be amended to D4.
Sheet Number 534 published as D4 should be amended to D13.

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502.	Skidmore, Owings & Merrill	Laboratories and Offices, Radnor, U.S.A.	Wall Details.
503.	Harrison & Abramovitz	Offices, Charlotte, U.S.A.	Wall Details.
504.	Weightman & Bullen	Convent Nursery, Liverpool	Wall and Canopy.

Number	Author	Location	Subject
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508.	Erno Goldfinger	Albemarle Street, London	Wall Details.
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518.	Hans Schaefers	Offices, Berlin	Wall Details.
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CONTRACT • NEWS •

*Notes below give basic data of contracts open under locality and authority which are in a bold type. References indicate : (a) type of work (b) address for application. Where no town is stated in the address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked * are given in the advertisement section.*

OPEN

BUILDING

AMPTHILL R.C. (a) Erection of 14 bungalows and two houses at Forresters Close, Haynes. (b) Engineer and Surveyor, 12 Dunstable Street, Ampthill, Bedford. (c) 2gn. (e) January 18.

* * *

BARRY B.C. (a) Ten five-person dwellings in blocks at Lower Gladstone Road. (b) Borough Engineer and Surveyor, Town Hall. (c) 2gn. (e) December 12.

* * *

BOURNEMOUTH B.C. (a) Contract 24E, Site No. 8. Mandale Road. Erection of 24 dwellings in two blocks of three-storey flats. (b) Borough Architect, Town Hall. (c) 2gn. (e) December 15.

* * *

BOURNEMOUTH B.C. (a) Contract K, 12A, Site No. 2. Erection of one three-storey block of 12 dwellings. (b) Borough Architect, Town Hall. (c) 2gn. (e) December 15.

* * *

BOURNEMOUTH B.C. (a) Erection of (Contract No. 10) five pairs of one-bedroom bungalows and ancillary works; (Contract No. K. 4A), one block of four one-bedroom flats; (Contract 10A), five pairs of two-bedroom bungalows. (b) Borough Architect, Room 106, Town Hall. (c) 2gn. (e) December 15.

* * *

BRENTWOOD U.C. (a) Erection of five houses at Cromwell Road. (b) Surveyor, Council Offices, Brentwood, Essex. (c) 1gn. (e) December 9.

* * *

CARDIFF C.C. (a) Construction of a children's convenience at Victoria Park, Cowbridge Road. (b) City Architect, 12 Park Place, Cardiff. (c) 2gn. (e) December 16.

* * *

CARDIFF C.C. (a) Llandaff Technical College, instalment No. 3. Erection of a four-storey classroom block, single-storey workshop, single-storey canteen block, chiropody unit and caretaker's house. (b) City Architect, 12 Park Place, Cardiff. (c) 2gn. (e) December 17.

* * *

CHELMSFORD B.C. (a) (1) Contract 1: Erection of 18 bungalows at Meadgate, Baddow Road. (2) Contract 2: Erection of 21 houses at Meadgate, Baddow Road; (3) Contract No. 3: Erection of 36 houses at Meadgate, Baddow Road. (b) Borough Engineer, Municipal Offices. (c) 2gn each contract. (e) December 11.

* * *

CROSBY B.C. (a) Erection of a site adjoining the sea front of a public swimming bath with pool 110ft by 42ft, dressing accommodation, water treatment rooms, club rooms, café and seating for 550 spectators. The structure will be reinforced concrete. A sea water intake will involve work in tidal waters. Work to commence April, 1960. (b) Town Clerk, Town Hall, Waterloo, Liverpool, 22. (d) December 4.

* * *

DAGENHAM B.C. (a) Erection of a single-storey framed building 90ft by 90ft, Eastbrook Avenue. (b) Borough Surveyor, Civic Centre. (c) 2gn. (e) December 11.

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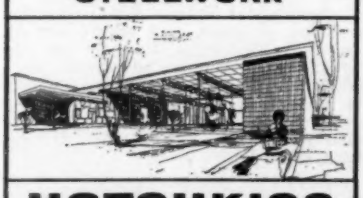

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EAST SUFFOLK C.C. (a) Lowestoft Police Station, alterations and additions, mainly at first-floor level, amounting to about 2,300 sq ft. (b) E. J. Cunliffe, County Architect, County Hall, Ipswich. (d) December 7. (e) January 12.

* * *

EIRE—TIPPERARY (S.R.) C.C. (a) Construction of a sewerage scheme for the village of Kilsheelan, for Tipperary (South Riding) County Council. (b) Mr. Michael Cantrell, of Micholes O'Dwyer & Son, 6 Burlington Road, Dublin. (c) 10gn. (e) December 31.

* * *

GLASGOW C.C. (a) Separate works for the erection of a fire station, Brockburn Road, Pollok. Excavator, concrete and brick, etc. Metal windows and roof lights. Bitumen felt roofing. Plumber. Electrical. Tile. Carpenter and joiner. Glazier. Roughcast, heating, plastering. Painter. (b) City Architect and Planning Officer, 20 Trongate, Glasgow, C.1. (d) Immediately.

* * *

GUILDFORD B.C. (a) Erection of 16 one-bedroom flats in two blocks of eight flats and 27 pairs of three-bedroom houses at Park Barn. (b) Borough Engineer and Surveyor, Municipal Offices, High Street. (e) December 17.

* * *

HAMBLEDON R.C. (a) Erection of 20 aged persons' bungalows. (1) Pathfields, Chiddingfield, one block of five and minor incidental works; (2) Parsonage Road, Cranleigh, 15 bungalows in three pairs and two blocks, with minor incidental site works. Tenders for one or for both sites. (b) Engineer and Surveyor, Council Offices, Bury Fields, Guildford. (c) 3gn. (e) December 16.

* * *

HUNTINGDONSHIRE FIRE BRIGADE COMMITTEE. (a) Erection of a pair of fire officers' houses at Hartford Road, Huntingdon. (b) S. M. Holloway, County Architect, County Buildings, Huntingdon. (e) December 9.

* * *

MIDDLESBROUGH B.C. (a) Erection of four shops and two flats at Beechwood. (b) Borough Engineer. (c) 2gn. (e) December 7.

* * *

NEWQUAY B.C. (a) Alterations and additions to Penporthy House. (b) County Architect, County Hall, Truro. (c) 1gn. (e) December 7.

* * *

NOTTINGHAM B.C. (a) Erection of a pavilion in traditional construction at Charnock Avenue Playing Fields, Wollaton. (b) City Engineer and Surveyor, The Guildhall. (c) 2gn. (e) December 9.

* * *

OLDBURY B.C. (a) Erection of 27 three-storey flats. (b) Borough Engineer and Surveyor, Municipal Bank Chambers, Birmingham Street, Oldbury. (c) 2gn. (e) December 14.

* * *

OLDBURY B.C. (a) Erection of eight shops with maisonnettes, three storeys high and five dwellings one- and two-storeys high. (b) Borough Engineer and Surveyor, Municipal Bank Chambers, Birmingham Street, Oldbury. (c) 2gn. (e) December 14.

* * *

OLDHAM B.C. (a) Erection of a hostel for 42 aged persons. (b) Cameron & Middleton, 21 Queen Street, Oldham. (c) 2gn. (e) December 7.

PEMBROKESHIRE C.C. (a) Erection of one pair of police houses at Priory Terrace, Monkton, Pembroke. (b) County Architect, Haverfordwest. (c) 2gn. (e) December 14.

* * *

READING B.C. (a) Construction of a mezzanine floor with ancillary works in the Central Library, Blagrave Street. (b) Town Clerk, Town Hall. (e) December 14.

* * *

ROCHDALE B.C. (a) Alterations and improvements in the Police Department, Town Hall. (b) Borough Surveyor, Town Hall. (e) December 14.

* * *

ROYAL BURGH OF INVERNESS. (a) Repairs to dressed masonry walling for work necessary at the Town House. (b) Burgh Architect, 11 High Street, Inverness. (e) December 14.

* * *

RYTON U.C. (a) Erection of 36 two-bedroom houses at Heddon Kiew, Ryton-on-Tyne. (b) Surveyor, Council Offices, Ryton Tower, Ryton. (e) December 7.

* * *

SALE B.C. (a) Contract 3/1959. Erection of 14 aged persons' bungalows. (b) Borough Engineer. (c) 2gn. (e) December 7.

* * *

SALFORD B.C. (a) Alterations to provide pre-cleansing and toilet accommodation for mixed bathing at Seedley Baths, Derby Road. (b) City Engineer and Surveyor, Town Hall, Salford, 3. (c) 2gn. (e) December 8.

* * *

SCOTTISH SPECIAL HOUSING ASSOCIATION. (a) All or separate trades for erection of 30 traditional houses at Pinkie Braes, Musselburgh. (b) Secretary, 19 Palmerston Place, Edinburgh, 12.

* * *

SEATON VALLEY U.C. (a) Erection of a small depot. (b) Council's Surveyor, Seaton Delavel, Whitley Bay. (e) December 12.

* * *

SHEFFIELD C.C. (a) (1) Demolition of 72 houses, Woodside Lane; (2) Demolition of 86 houses, Park Hill. (b) Estates Surveyor, Town Hall. (c) 2gn each contract. (e) December 12.

* * *

SHILDON U.C. (a) Erection of 16 houses, in two blocks of six and one block of four, Jubilee Fields estate. (b) Surveyor, Council Offices, Burke Street, Shildon. (c) 2gn. (e) December 7.

* * *

SHREWSBURY B.C. (a) Erection of 78 dwellings and 23 garages at Harlescott Grange, part V. (b) Borough Surveyor, Guildhall. (c) 2gn. (e) December 18.

* * *

SOUTH-EAST REGIONAL HOSPITAL BOARD, SCOTLAND. (a) Following trades for the erection of a ward block estimated to cost £50,000 at Gogarburn Mental Deficiency Institution at Corstophine, Edinburgh, 12. (1) Excavator, mason, brick, etc.; (2) carpenter, joiner and glazier (3) plumber; (4) copper roofing; (5) plaster, cement and tilework. (b) Regional Architect, 18 Rothesay Terrace, Edinburgh. (c) £2. (d) Immediately.

SOUTH MOLTON B.C. (a) Construction of a new livestock market at South Molton. (b) George Brown & Partners, Equity and Law Buildings, Baldwin Street, Bristol. (c) 2gn.

* * *

STAINES U.C. (a) Erection of 25 pairs of semi-detached houses. (b) Engineer and Surveyor, Shortwood House, 240 London Road, Staines. (c) 2gn. (e) December 9.

* * *

ST. HELENS B.C. (a) Contract No. 2140. Erection and completion of 96 flats, comprising eight three-storey blocks, each block containing 12 flats, at Fleet Lane No. 1 site, Derbyshire Hill estate. (b) Borough Surveyor, Town Hall. (c) 2gn. (e) December 15.

* * *

STOCKPORT B.C. (a) Erection of an aged persons' home for 50 residents and staff. Traditional cross-wall construction, timber curtain walling, reinforced concrete suspended floors, flat roof. (b) Borough Architect, Town Hall. (c) 2gn. (e) January 30.

* * *

SUNDERLAND B.C. (a) Extension and improvements to kitchen and dining room at Bede Grammar School. (b) S. W. Milburn & Partners, 9 Esplanade, Sunderland. (c) 2gn. (e) December 8.

* * *

ULSTER—BALLYMENA B.C. (a) Erection of 86 houses, complete with site works, at Larne Road, Ballymena for Ballymena Borough Council. (b) John Simpson, Town Clerk, Town Hall, Ballymena, Co. Antrim. (c) 5gn. (e) December 7.

* * *

ULSTER—BOROUGH COUNCIL OF LARNE. (a) Erection and completion of 102 dwellings, in two contracts (one of 26 houses and 24 flats, and one of 36 houses and 16 flats), in the Borough of Larne. (b) Office of the Housing Consultant, T. J. M. Davison, Esq., 47 Station Road, Larne. (c) 5gn. (e) December 7.

* * *

WEST HARTLEPOOL B.C. (a) Erection of the proposed Brierton Hill Secondary Technical School for Girls, Owton Manor estate. (b) Borough Architect, Municipal Buildings. (e) January 11.

* * *

WIGAN B.C. (a) Erection of 98 bungalows or houses at Billings Road and Tunstall Lane. (b) Town Clerk, Municipal Buildings, Library Street. (d) December 5.

* * *

WILLENHALL U.C. (a) Contract ref.: 77, erection of 28 dwellings, a block of seven shops and six maisonnettes at Portobello. Contract ref.: 52/6, erection of 16 old people's dwellings, Wood Lane. Contract ref.: 78 (1) erection of 72 dwellings at Straight Road; (2) Construction of roads and sewers serving the above-mentioned dwellings on the Straight Road site, including main outfall works. Tenders for (1) and (2) will be considered together. (b) Clerk of the Council, Town Hall. (c) 3gn for each contract. (d) December 5. (e) January 20.

* * *

YORK C.C. (a) Alterations to Police Headquarters, York. (b) City Architect, 8 St. Leonards Place York. (c) £2. (e) December 12.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

BANGOR, CO. DOWN. (1) Large factory for Oneida Ltd., of New York State. (2) Bloomfield Road. (3) Fraser & Co. Ltd., 21 Hillfoot Street, Belfast. (4) About £1,000,000.

* * *

BASILDON NEW TOWN. (1) Erection of a block of shops. (2) Town Square. (3) Richard Costain Ltd., 111 Westminster Bridge Road, London, S.E.1. (4) £245,000.

* * *

BIRMINGHAM C.C. (1) Erection of three 16-storey blocks of flats. (2) Birchfield Road, Perry Barr. (3) George Stubbings Ltd., Streetlay Road, Erdington, Birmingham. (4) Cost: £700,000.

* * *

BRECONSHIRE. (1) Construction of a 250,000 gallon reinforced concrete reservoir, for Builth and District Water Board. (2) Near Llanwrtyd. (3) Norwest Construction Co. Ltd., 38 Ruthven Road, Liverpool. (4) £171,000.

* * *

BRIGHTON B.C. (1) Erection of flats, shops, etc. (2) Albion Hill. (3) Rice & Sons Ltd., 23 Gloucester Place, Brighton. (4) £133,473.

* * *

CHESTERFIELD B.C. (1) 62 houses. (2) Dunston Hall estate. (3) E. A. & H. A. Tomlinson Ltd., High Street, Beighton, Sheffield. (4) £78,869.

* * *

CHESTERFIELD B.C. (1) Science block at Chesterfield School. (3) A. Mason (Contractors) Ltd., Darwin Lane, Tapton, Sheffield, 10. (4) £53,324.

* * *

COLNE (LANCS) B.C. (1) Housing scheme. (2) Bunkers Hill redevelopment. (3) A. Spencer & Son Ltd., 31 Bold Street, Accrington. (4) £61,059.

* * *

DURHAM. (1) Second stage of physics building. (2) Durham University. (3) John Laing & Son Ltd., London, N.W.7, and Carlisle.

* * *

EAST BARNET U.C. (1) 65 dwellings. (2) Pine Road development area. (3) Drury & Co. Ltd., The Grange, Wigston Fields, Leicester.

* * *

EXETER C.C. (1) 158 non-traditional dwellings. (2) Barley Mount estate. (3) George Wimpey & Co. Ltd., Hammersmith, W.6. (4) £263,367.

* * *

GATESHEAD B.C. (1) Erection of three blocks of 16-storey flats. (2) Chandless redevelopment area. (3) Stanley Miller Ltd., 17 North Street, Newcastle-on-Tyne, 1. (4) £696,152.

* * *

HESTON AND ISLEWORTH B.C. (1) A works depot with offices and garage. (3) A. J. Wait & Co. Ltd., New Malden, Surrey.

* * *

KIRKCALDY B.C. (1) 168 two-storey dwellings, traditional cottage type. (2) Bogie Mains. (3) Atholl Houses Ltd., 29 Park Circus, Glasgow. (4) £237,453. (1) 46 two-storey traditional cottages and 26 similar dwellings. (3) Lanark Builders Ltd., Mossend, Bellshill, Lanarks. (4) £100,013.

LEAMINGTON SPA. B.C. (1) Blocks 1 and 3 of eight-storey flats. (2) Lillington. (3) Morris & Jacombs Ltd., 71 Hobnor Road, Birmingham. (4) £183,614.

* * *

LIVERPOOL C.C. (1) Erection of a county primary school. (2) Broad Square, Liverpool, 11. (3) F. C. Bloomfield & Co. Ltd., 71 Almonds Green, Liverpool, 12. (4) £78,775.

* * *

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* * *

LONDON COUNTY COUNCIL. (1) A 11-storey block of 42 flats and other works. (2) Lawson Street, Southwark. (3) John Laing & Son Ltd., Mill Hill, London, N.W.7. (4) £132,220. (1) Houses and maisonnettes. (2) Woolwich. (3) Stewart & Partners Ltd., Baker Street, London, W.1. (4) £66,690.

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LONDON COUNTY COUNCIL. (1) Flats. (2) Wade Street area, Poplar. (3) Kirk & Kirk Ltd., Upper Richmond Road, London, S.W.15. (4) £89,434.

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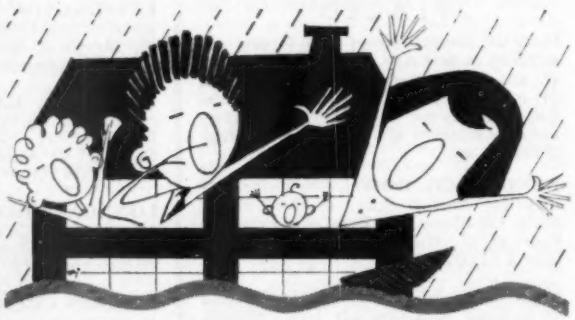

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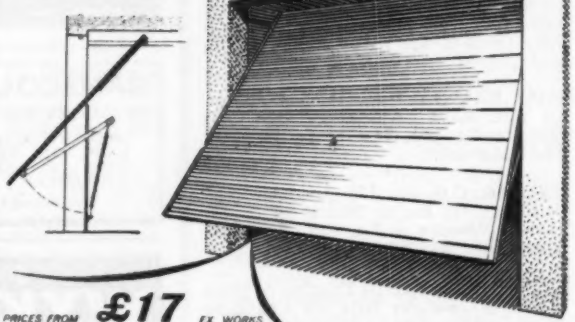

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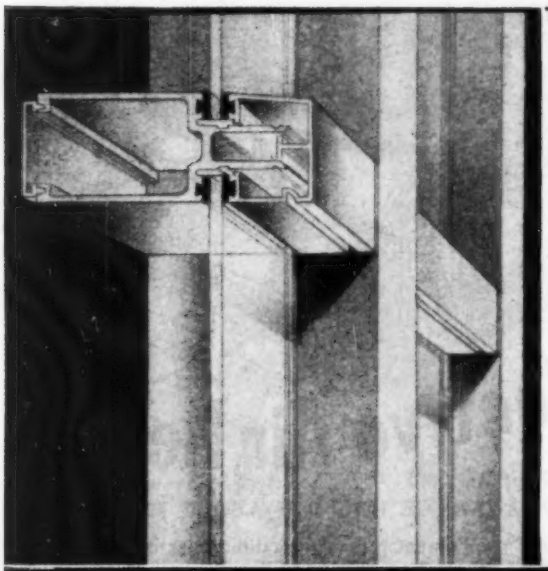

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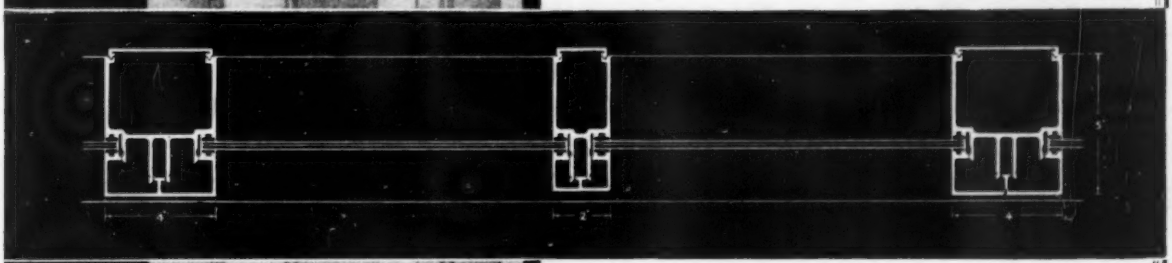

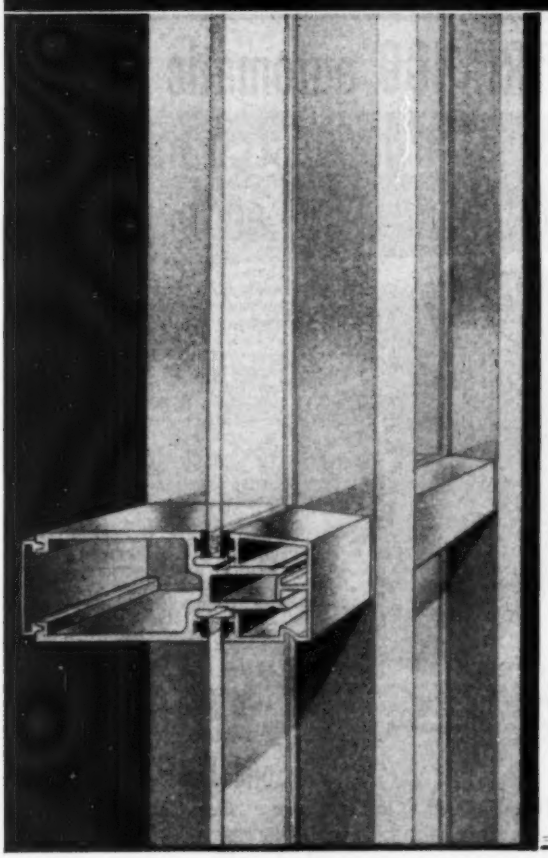

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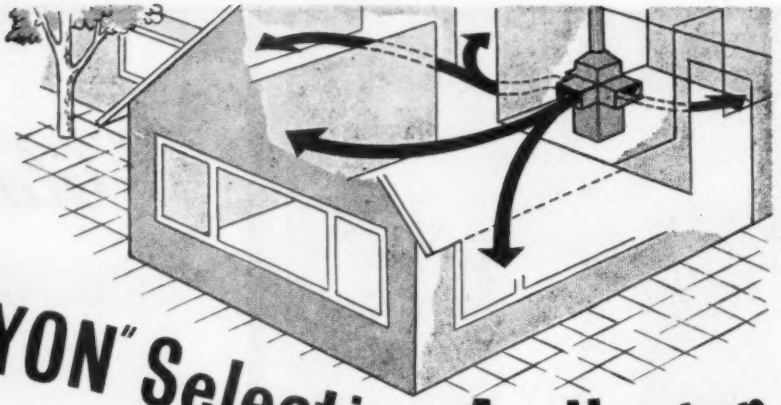

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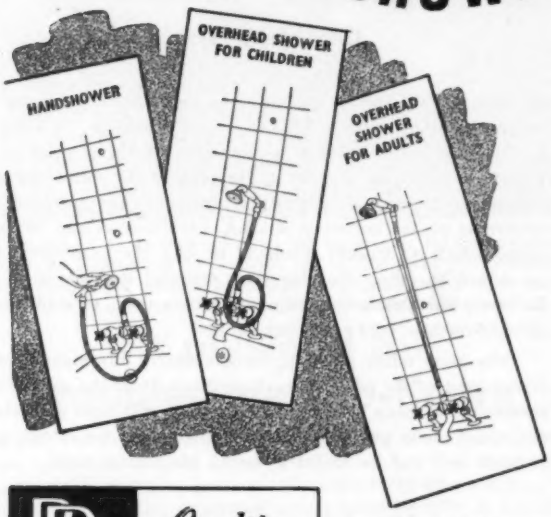

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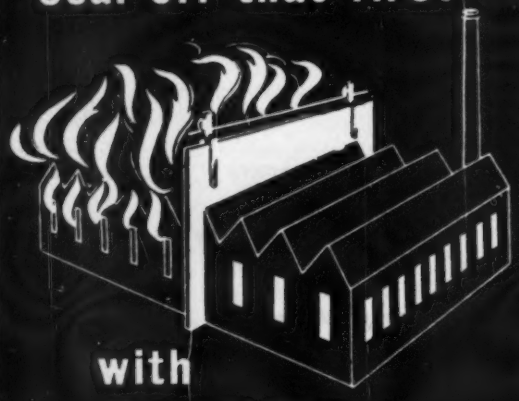

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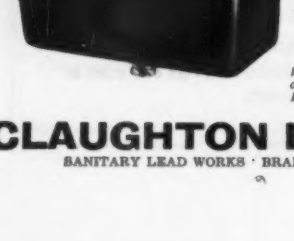

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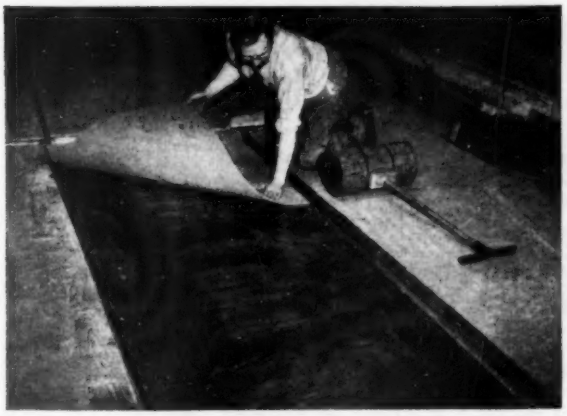

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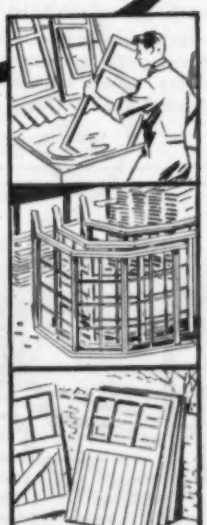

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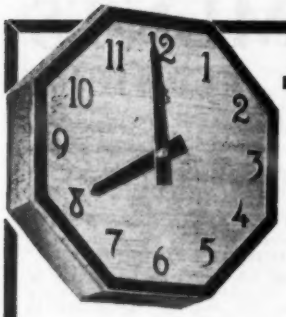

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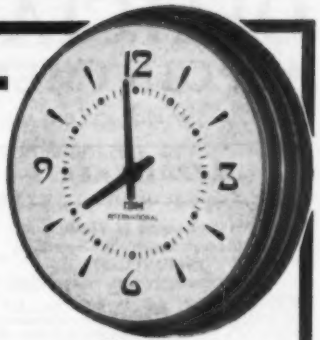

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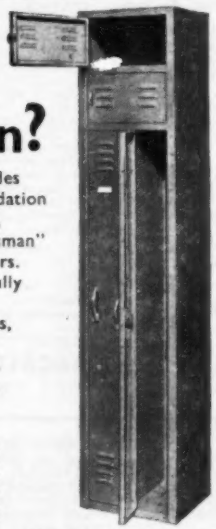

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OFFICIAL ANNOUNCEMENTS
APPOINTMENTS • CONTRACTS • TENDERS

Rate: 20/- per inch and pro rata, minimum half inch. Close for press 1st post Monday for following Wednesday Issue

APPOINTMENTS

Borough of Enfield
Borough Engineer's Department
APPOINTMENT OF ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the above appointment at a salary in accordance with Grade APT II of the National Scheme of Conditions of Service (£765 x £30—£880 per annum) with the additional appropriate London Weighting.

The commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.

Application forms obtainable from Mr. H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx, should be returned to the undersigned.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Gentleman's Row,
Enfield, Middx. [0777

SIR PERCY THOMAS AND SON OF CARDIFF, SWANSEA AND SHREWSBURY

REQUIRE experienced Assistants for all three offices. The programme of work is varied and includes universities, science buildings, offices, industrial buildings and hospitals.

Applicants should be qualified and experienced, with a sound knowledge of progressive design, and capable of exercising a high degree of responsibility.

Salary range for Assistant Architects is £1,000 to £1,500 p.a., and for Assistants up to £1,000 per annum. A pension scheme is in operation for Assistant Architects after a period of qualifying service and satisfaction. Holidays are three weeks per annum, and every third Saturday morning is free.

Applications, stating age, qualifications and experience should be made to the Secretary, 10 Cathedral Road, Cardiff. [5852

Borough of Hendon
Borough Engineer and Surveyor's Department
DEPUTY CHIEF ASSISTANT ARCHITECT

APPLICATIONS are invited for the above appointment which is in Lettered Grade B, i.e., £1,310 rising by annual increments to £1,485 per annum.

Applicants should be Associate Members of the Royal Institute of British Architects and have had wide experience in design, preparation of sketch plans, working drawings, specifications, estimates and supervision of works in progress.

Pensionable post. Subject to National Scheme. Medical examination. Appointment terminable by one month's notice on either side.

Applications stating age, qualifications and experience, together with the names and addresses of three referees, must reach the Borough Engineer and Surveyor, at the undermentioned address by December 21, 1959.

Canvassing will disqualify.

R. H. WILLIAMS,
Town Clerk.

Town Hall,
Hendon, N.W.4. [5861

County Borough of Bury

APPLICATIONS invited for following permanent appointments:

(a) **Quantity Surveyor**, APT III (£880/£1,065) or Special Grade (£785/£1,070).

(b) **Junior Engineering Assistant**, APT I (£610/£765).

Commencing salaries according to qualifications and experience.

Applicants for appointment (a) should be experienced in dealing with contracts for large public works.

Applicants for appointment (b) should have completed their professional training under the Scheme for the Training of Municipal Engineers or should be University Graduates.

Applications stating age, details of training, qualifications, present and previous appointments and experience, together with the names and addresses of two referees, must reach me by December 21, 1959.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
November 26, 1959. [5885

APPOINTMENTS (cont)

British Solomon Islands Protectorate
ARCHITECTS
Public Works Department

TO be responsible for the design and construction by direct labour and contract of Government buildings, preparation of contract documents and estimates.

Contract appointments. Salary range £1,152-£1,860 (sterling) plus gratuity. Quarters available at reasonable rent.

Candidates must be A.R.I.B.A. with wide post qualification experience. Experience of tropical building an advantage.

Write to Director of Recruitment, Colonial Office, London, S.W.1, giving full names, age, qualifications and experience quoting BCD 112/45/02/E1. [5877

Lanark County Council

APPLICATIONS are invited from fully qualified Architects for appointment to the following posts in the County Architect's Department, Motherwell:

(a) **Senior Architects**—Salary scale £1,310/£1,425.

(b) **Senior Assistant Architects**—Salary scale £1,145/£1,310.

(c) **Architectural Assistants**—J.I.C. scale £795/£1,075.

Applicants for posts (a) and (b) should, in addition to all-round knowledge of architectural practice, have knowledge of modern school building and be capable of assuming position of responsibility.

In addition to large school building programme, work in department embraces every aspect of building with exception of housing; appointments, therefore, provide excellent opportunity for extending experience on an interesting and varied programme.

For (c), placing on scale may be given according to previous practical experience.

Superannuation. Medical examination. No canvassing.

Applications stating age, qualifications and experience together with names and addresses of two referees should be lodged with County Clerk, P.O. Box 1, Glasgow, within 14 days of date of advertisement. [5878

London County Council
ARCHITECTS
(up to £1,135)

REQUIRED for Housing, Schools and General Divisions. Full and varied programme of new work including schools, multi-storey flats and town development. Starting salaries according to qualifications and experience.

Particulars and application form from Hubert Bennett, F.R.I.B.A., Architect to Council, EK/113/59, County Hall, S.E.1. (2630). [0837

Borough of Brentford and Chiswick

APPLICATIONS are invited for the appointment of:

(a) **Building Surveyor/Estimator**, salary grade APT II (£765/£880 p.a., plus London Weighting allowance). Duties will be mainly in connection with the acquisition of housing properties.

(b) **Junior Assistant Architect**, salary grade APT I (£610/£765, plus London Weighting allowance). Some experience in an architect's office is required.

Applications to the Borough Engineer and Surveyor, Town Hall, Chiswick, W.4, by December 14, 1959.

W. F. J. CHURCH,
Town Clerk.

Town Hall,
Chiswick, W.4.
November 24, 1959. [5882

Portsmouth College of Art
Principal: W. J. L. Gaydon, A.R.C.A.

APPLICATIONS are invited for the post of Studio Master and Lecturer in the School of Architecture. Preference will be given to applicants who have been trained in a recognized School of Architecture, are Associates of the Royal Institute of British Architects and have at least three years' post-academic practical experience.

The salary will be in accordance with the Burnham Technical Scale for Lecturers, viz., £1,370 x £35—£1,550.

Further particulars and forms of application, which should be returned as soon as possible, may be obtained from the Registrar, College of Art, Guildhall Square, Portsmouth. [5871

APPOINTMENTS (cont)

London Electricity Board
ARCHITECTURAL DRAUGHTSMAN

APPLICATIONS are invited for the position of Architectural Draughtsman in the Architect's section of the Chief Engineer's Department in the Waterloo, S.E.1 area.

Applicants should be neat draughtsmen and have had experience in an architect's office. Preference will be given to those who are taking a recognised course of study with a view to obtaining architectural qualifications.

The post is graded under Schedule "D" of the National Joint Board agreement as Grade 6 (£660 to 780 per annum, inclusive of London allowance).

Application form obtainable from Personnel Officer, 46 New Broad Street, London, E.C.2, to be returned completed within 14 days of the publication date of this advertisement. Please quote ref. PER/V/2721/AA. [5880

City Architect's Office, Manchester

APPLICATIONS invited for the appointment on the permanent staff of a Senior Assistant Architect. Salary, APT IV (£1,065/£1,220 per annum). Housing accommodation for a limited period may be provided. Five-day week. Removal expenses allowed.

Forms of application from the City Architect, P.O. Box 488, Town Hall. Returnable by December 16, 1959. [5884

TENDERS

Llandudno Urban District Council
CLASS "A" STREET LIGHTING

TENDERS are invited for the supply, erection and wiring of approximately 200 Class "A" concrete lighting columns, complete with lanterns, and also for the supply and erection of steel extension tubes and lanterns for existing cast-iron columns in Mostyn Street, Llandudno.

Specification, Bill of Quantities, general conditions of contract and tender forms may be obtained from, and drawings may be inspected at, the office of the undersigned on or after Monday, November 16, 1959.

Tenders, in plain envelopes endorsed "Tender for Class 'A' Street Lighting," must be received by the Clerk to the Council not later than 10 a.m. on Thursday, December 17, 1959.

The Council do not bind themselves to accept the lowest or any tender.

J. A. EDWARDS, B.Eng., A.M.I.C.E., M.I.Mun.E., A.M.T.P.I.,
Engineer and Surveyor.

Town Hall,
Llandudno.
November 10, 1959. [5879

ARCHITECTURAL APPOINTMENTS VACANT

Rate: 1/9 per line, minimum 3/6, average line six words.

ARCHITECTURAL ASSISTANT, London, Final standard. Industrial and commercial. Progressive and interesting. Salary according to experience and ability. Box 3667. [0079

ARCHITECTURAL ASSISTANT, Intermediate standard. Busy London office. Good prospects. Box 3668. [0080

ARCHITECTURAL ASSISTANT at Final standard required by Buckinghamshire office. Interesting and varied work with scope for initiative and responsibility. State age, experience and salary required to Box 5143. [0136

ARCHITECTURAL ASSISTANTS, Senior and Junior, required by firm in High Wycombe for commercial and industrial schemes. Scope for responsibility and experience. Five-day week. Write Box 5793. [0999

ARCHITECTURAL ASSISTANT up to Intermediate Standard required for busy general practice. Write stating age, experience and salary required to Earp, Badger & Harrison, A/A.R.I.B.A., Guild Chambers, Scholars Lane, Stratford-on-Avon. [5851

MISCELLANEOUS SECTION

RATE: 1/9d per line, minimum 3/6d, average line 6 words. Each para charged separately. Advertisements for Situations Wanted are accepted at the specially reduced rate of 6d. per line, minimum 1/6d.

BOX NOS. add 2 words plus 1/- for registration and forwarding replies which should be addressed c/o "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

SEMI-DISPLAY Advertisements with centralized lines are charged at 20/- per inch. and pro rata, minimum half inch.

PRESS DAY, Monday. Remittances payable to Messrs. Iliffe & Sons Ltd., Dorset House, Stamford Street, London, S.E.1.

No responsibility accepted for errors

ARCHITECTURAL APPOINTMENTS VACANT (cont)

ARCHITECTURAL ASSISTANTS, Intermediate standard or above, required by Goodhart-Rendel, Broadbent & Curtis, 13 Manchester Square, W.1. Give details of training, experience and salary required. [5866

ARCHITECTURAL ASSISTANTS required to work on varied and interesting projects. Office experience desirable. Salaries according to experience (£600/£1,000 p.a.). Five-day week. Apply in writing or telephone Covell & Matthews, 34 Sackville Street, London, W.1. REGent 2291. [5845

ARCHITECTS

Qualified Men or Women required.

To run church, school and industrial projects from sketch design to completion.

Experience in private practice an advantage.

Starting salary £800 to £1,200 or more for above-average ability.

Progressive outlook.

Also:

ARCHITECTURAL ASSISTANTS

Students seeking valuable experience welcomed

Encouragement to develop responsibility.

Every assistance towards Qualifying.

Fees paid for approved courses of study.

Starting Salary £600 to £850 according to ability.

WEIGHTMAN & BULLEN, ARCHITECTS,
76 Rodney Street, Liverpool, 1.
5-DAY WEEK, BONUS and PENSION SCHEME [5847

ASSISTANTS of Intermediate and Final standard required for large and small educational jobs, some overseas: at first in London and later in Guildford office. Write to Frank Rutter, F.R.I.B.A., 2 Finchley Road, London, N.W.8. [5800

ASSISTANTS required immediately. Intermediate and Final standard. Interesting positions giving plenty of scope for responsibility and contract supervision, in West End office. Tel.: MAYfair 3111 or Box 5861. [0222

ASSISTANT ARCHITECTS. Senior Assistants required in Coventry office on varied work, commercial, industrial and educational. Five-day week and pension scheme. Apply stating experience and salary required to Hellberg and Harris, F/F.R.I.B.A., 13 Queen Victoria Road, Coventry. [5858

BRIAN PEAKE requires Assistant interested in and capable of running small contracts. Tel.: GRO 7888. [5887

CONTEMPORARY Sheffield architects require experienced Assistants for work on major schemes, able to take initiative and responsibility. New offices in pleasant surroundings. Bonus, pension and life assurance schemes. Salary according to experience and ability. Full particulars to Hadfield, Cawkwell & Davidson, 17 Broomgrove Road, Sheffield, 10. [5869

COVELL & MATTHEWS

require
capable and enthusiastic
Senior and Junior Assistants
to work on large central area redevelopment projects

Salary according to experience
Five-day week
Ring REGent 2291 [5552

COUNTRY PRACTICE with varied work including new public houses; church and parsonage restorations; restoration of historic houses; country house alterations; Public School work; private estates, shops and small industrial jobs. Assistant required of R.I.B.A. Intermediate to Final standard, interested in accepting full responsibility from sketch plan stage to final accounts, including correspondence and site supervision. Salary £500/£800. Please write giving age and experience to Forsyth Lawson, Cunningham & Partners, Chartered Architects, 30 Horse Fair, Banbury, Oxon. [5783

PLAYNE & LACEY urgently require a recently qualified Architect or a Final standard evening school student for work on large scale university development. Telephone: WHI 2552 for interview. [0754

POPLAR BOROUGH COUNCIL invite applications for two Assistant Architects at a salary of £1,100 per annum (including London Weighting). Applicants should have had experience in the design and construction of multi-storey flats and houses and public buildings. Application forms from Borough Engineer and Surveyor, Poplar Town Hall, Bow Road, E.3. Closing date December 21, 1959. [5886

SALARY between £800-£1,100 according to experience and ability for keen capable assistants. Applicants must be willing to gain valuable experience by shouldering the worry and responsibility of handling, at the moment, numerous varied small jobs. The right men will advance with the expansion of the practice. Apply Stroud & Nullis, A/A.R.I.B.A., 25 Ebury Street, S.W.1. [5876

SCHERRER AND HICKS, F/F.R.I.B.A., have immediate vacancies for Assistants in their Manchester office.

(a) Two Senior men—five to eight years' experience.

(b) Two Graduate and Intermediate men.

Must be interested in contemporary design. Good salaries. Apply B. J. Moxham, A.R.I.B.A., 27 King Street, Manchester, 2. [5856

SENIOR ASSISTANT ARCHITECT required to work on a variety of large and interesting projects. Modern approach essential, with an ability to take complete charge of jobs from planning stage to completion. Apply R. Mountford Pigott & Partners, 3 Cromwell Place, S.W.7. Kensington 1242. [5881

SENIOR AND JUNIOR ASSISTANTS, with contemporary outlook, required for expanding practice engaged on interesting and varied work including large projects. Quarterly bonuses, five-day week and three weeks annual holiday. Salary by arrangement. Apply in writing or telephone: Kenneth Anns & Partners, 1 Lincoln's Inn Fields, London, W.C.2. Tel.: HOL 3031, CHA 7443. [0333

SMALL, varied and developing practice requires Assistant Architect, able to take charge of jobs, age around 30—please apply in writing to Bird & Tyler, 13 Welbeck Street, London, W.1. [5867

OPPORTUNITY for first-class Architects with initiative to take responsibility for a variety of contemporary work. South Yorkshire area. Salary according to ability. Bonus, pension and life assurance schemes. Travelling, removal and interview expenses paid.—Box 6221. [5868

URGENT. Architects, Assistants, all levels, top class only. New practice grows daily. Keen types get in ground floor. Apply Box 6246. [5875

WEST END Architects require experienced senior and junior Assistants for interesting commercial developments in London and Provinces. Genuine prospects for advancement to applicants with ability and initiative. Telephone Langham 9251, or write giving particulars of experience and salary required to Newman, Levinson & Partners, 9 Mansfield Street, London, W.1. [5874

SITUATIONS VACANT

CLERK OF WORKS required immediately for extension to the King David High School, Manchester; the appointment is for one year. Salary scale £725 to £845 per annum depending on ability and experience. Apply in writing to the architects, Taylor, Young & Partners, 195 Oxford Road, Manchester, 13. [5872

CONTRACTS MANAGER with extensive experience of practical and commercial control. Must have technical and quantity surveying background. Bristol area. References and details required. Box 6245. [5873

THE DEVON TRADING CO, LTD., Queen Street Station Yard, Exeter, require a capable and qualified Manager for their Roofing, Sheeting and Insulation Department. A good salary will be paid to a competent man for appointment immediately. Bonus and pension schemes operating. Reply to the Managing Director as above. [5836

Classified advertisements continued overleaf

MIDDLESEX COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT

THE County Council has decided to enlarge substantially the staff of this department with offices in Westminster and it is proposed to make a number of appointments in each of the following grades:

ASSISTANT ARCHITECT, APT V (£1,250/£1,405 p.a.).
ASSISTANT ARCHITECT, APT IV (£1,095/£1,250 p.a.).
ASSISTANT ARCHITECT, Special Grade (£815/£1,100 p.a.).
JUNIOR ASSISTANT, APT I (£640/£795 p.a.).

The department has in hand a large and interesting programme of works for School Buildings, Technical Colleges, Old People's Homes, Fire Stations and other County Buildings which will be designed under the direction of MR. WHITFIELD LEWIS, F.R.I.B.A., the County Architect. Organization is on a group basis and full scope will be given to Architects who show design ability.

Applications are also invited for a post of ASSISTANT ARCHITECT, APT IV, to set up and take charge of a Technical Information Group and for a QUANTITY SURVEYOR, APT V, to undertake elemental analysis of estimates and preparation of costings for current building techniques.

Appropriate professional qualifications are required for all posts and commencing salaries will be assessed according to qualifications and experience. Appointments will be to the established staff subject to medical fitness and prescribed conditions.

Application forms from The County Architect, 1 Queen Anne's Gate Buildings, Dartmouth Street, S.W.1, must be returned within 10 days. (Quote B.470A.B.N.)

ARCHITECTURAL ASSISTANTS
required by
MINISTRY OF WORKS

For employment in London. Keen and enthusiastic assistants of Intermediate R.I.B.A. standard are required for the design of interesting and varied types of buildings in all parts of the world. The salary range is from £550 (at age 21) to £900. Starting pay according to age and experience. Five-day week. Three and a half weeks' annual leave. Good prospects of promotion and permanency. Permanent posts are pensionable and the pension scheme is non-contributory.

Apply, giving details of age, training and experience to: E. Bedford, C.B., C.V.O., A.R.I.B.A., Chief Architect, Ministry of Works, Room 435, Abell House, John Islip Street, London, S.W.1.

SITUATIONS WANTED

Advertisements under this heading only are accepted at the specially reduced rate of 6d per line, minimum 1/6.

YOUNG MAN (21), two years' college, plus six months' office experience, seeks position in London office. Box 6275. [5888

ARCHITECTURAL CARVINGS

CARVINGS, architectural (composition) for built-in furniture, wall panelling, etc. Variety of 2,000 different types of varying periods. On view at showroom. Michael Shavelson, 105/107 Brick Lane, E.1. Regret no catalogues. Telephone: BIS 0225. [5793

PRIVATE DRIVES AND ROADS

PRIVATE Drives, Forecourts, Estate Roads, etc., resurfaced or reconstructed by Specialists. Tarmacadam or Tarspraying. Estimates Free. Stanley Lucas (Slough) Ltd., Alexandra Road, Slough 21279. [0136

FOR SALE

OFFERS invited from persons interested in the purchase by demolition of a fine church building. All faced with Derbyshire sandstone shoddies in 3in and 4in courses, with string courses, arches, mullions and copings all in good condition. Also other valuable fixtures.

Howard Estates Ltd., 9 Queens Road, Southport. Tel. 2982. [5883

SERVICES OFFERED

GEN. Estimating Service. This service especially for the small builder. Your alterations and constructions priced. Qualified. 35 years in building construction. Box 5685. [5811

INTERIOR DECORATOR of distinction, desires to collaborate with imaginative firm as consultant. Box 6089. [0066

WORK WANTED

ENQUIRIES invited for manufacture of builders' engineering items—steel frames, trusses, steel doors, etc., particularly in specialist work. Keen prices and quick delivery. Burley's, Weybridge, Surrey. Byfleet 4111. [5650

EXCAVATION sub-contracts, site development, overburden removal, clay getting, earth dam construction, etc. Technical staff available to analyse, programme and price complex projects. Particular attention given to finish and compaction. D.9, D.8, TD.18 and TD.14 scrapers, excavators, loading shovels and lorries available with competent and imaginative supervision for execution of work. Also interested in overseas projects calling for not exceeding 10,000yd per week output. Dick Hampton, Blacknest, Alton, Hants. Tel.: Bentley 2241. [0334

G. BARTER & CO., Industrial Decorative Spray and Brush Painters (labour only on contract). We supply equipment, 1a Whitton Way, Hounslow, Middlesex. HOUnslow 9615, SOUthall 3815. [0083

SCALE models for architects, civil engineers, estate developers. Box 6213. [5865

EDUCATIONAL

CANDIDATES PREPARED FOR R.I.B.A. Supplementary tuition and Revision Courses also arranged in any subject. Write to the Principal (A. B. Waters, F.R.I.B.A., F.I.Arb.), Ellis School of Architecture, 103c Old Brompton Road, London, S.W.7, or to Albany House, Worcester. [0084

GUARANTEED Examination Coaching for R.I.Ch.Surveyors, I.Qty.Surveyors, I.Mun.E., I.Struct.E., etc. First-class instruction courses in all aspects of Architecture, Building, Draughtsmanship, Surveying, Civil, Municipal, Structural and Sanitary Engineering. Write for free prospectus. International Correspondence Schools, Intertext House, Parkgate Road (Dept. 518), London, S.W.11. [0167

COMPETITION

WOULD £5,000 HELP YOU TO GET AHEAD?

£5,000 is the main prize in the new Get Ahead contest organized by the *News Chronicle* The B.B.C. will televise eight heats and the final. You need not have your own business to qualify for the final. All finalists will win considerably more than £200. In all, £7,500 will be won. Anyone with a sound business idea for putting £5,000 to good use should write for details **now** to: Get Ahead, *News Chronicle*, 4-7 Lombard Lane, London, E.C.4. [5833

MISCELLANEOUS

ARCHITECTS, surveyors, demolishers, etc., we are buyers of redundant and surplus refrigeration equipment, all kinds. We dismantle and collect. Best prices given. Write Box 5516. [5870

A PORTABLE record of your work in photographs. Kaufmann Photography, 43 Mill Lane, London, N.W.6. Tel.: HAMpstead 8920, CHAncery 2345. [5889

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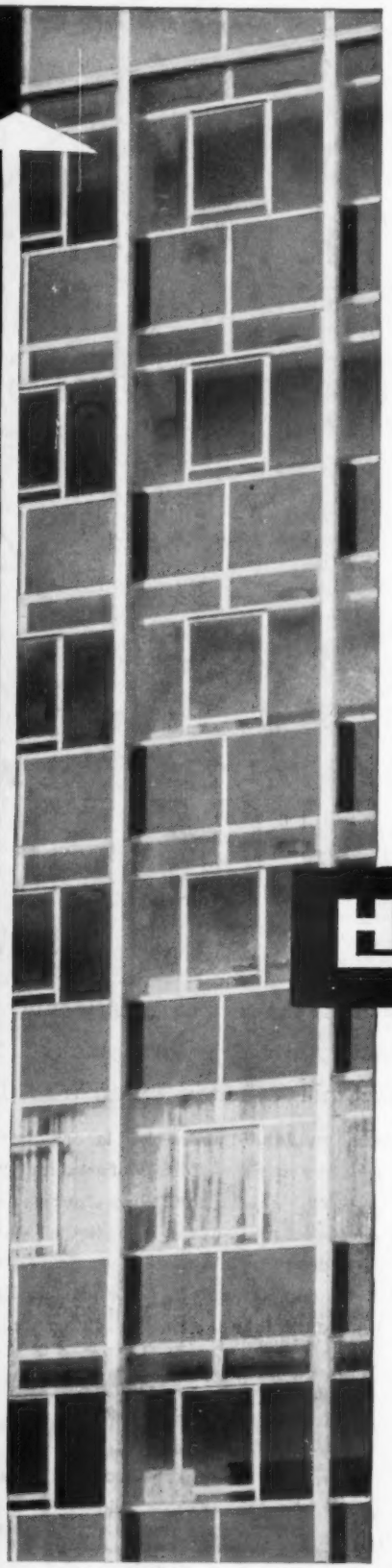

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